PowerLink

User Manual

Visonic®
For a secure way of life

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Chapter 1: Getting Started

Introduction

The Visonic PowerLink enables you to view and control the Visonic PowerMax+ / PowerMax PRO Security System over the Internet.

It provides the following advanced features:

- Event notifications to Email and mobile phones.
- Display of the status of the PowerMax+ / PowerMax PRO Security system including system mode, detector status and troubled accessories.
- Display of the current status of the home automation devices controlled by the PowerMax+ / PowerMax PRO Security system.
- In-House video viewing via Wired or Wireless cameras around the house.
- Recorded alarm time video of all cameras from the latest alarm.
- Local storage of video camera images on your computer.
- Remote arming and disarming of the PowerMax+ / PowerMax PRO Security system.

All control and view options are enabled via a secured Web Interface, accessible from anywhere around the globe whether connected by a PC or a cellular phone.

The Visonic PowerLink has a built-in Secured Web Server, which ensures that all private information is fully secured. The web interface does not require any software to be downloaded into the remote computer, allowing users to operate the browser at maximum-security level.

Specifications

Software

Security System

- Commands
  - Arm Away
  - Arm Home
  - Disarm
- Status
  - PowerMax+ / PowerMax PRO LCD Status
  - Arming Mode
  - Zone Information: Zone Number, Zone Type, Zone Status, Location.
  - Accessories Status: Keypads, Keyfobs, Sirens, Commanders.
  - Alarm Indication: Burglar, Fire, Flood, Gas, Emergency, Panic, Tamper.
  - Trouble Indication: Inactivity, Low Battery, Tamper Open, Line Failure, AC Failure, RF Jamming.
  - PowerMax+ / PowerMax PRO Log

Home Devices

- X10 Control
  - Lamp: On, Off, Dim, Bright
  - Heater: On, Off, Warmer, Cooler
  - Air conditioner: On, Off, Warmer, Cooler
  - Sunshade: Open, Shut, Up, Down
- X10 Attributes
  - Location
  - Type
  - Description
- X10 Filtering
  - By Active / Inactive
  - By Location
  - By Device Type
  - By Device Description

Cameras

- Up to 14 cameras can be enrolled (12 Ethernet & WiFi + 2 RS-485)

- Camera Types:
    - Visonic CAM1000 - RS-485
    - Visonic CAM2000 - Ethernet
    - Visonic CAM2000WL - WiFi / Ethernet
    - Visonic CAM3100 - WiFi / Ethernet / IR / 60 degrees FOV
    - Visonic CAM3200 - WiFi / Ethernet / Pan Tilt / IR / 60 degrees FOV
    - Vivotek IP7135 - Network Camera
    - Vivotek IP7137 - WLAN Network Camera
    - Vivotek PT7135 – Pan / Tilt Network Camera
    - Vivotek PT7137 – Pan / Tilt WLAN Network Camera
    - Vivotek FD7131 – Indoor Dome with While LED
    - Vivotek FD6112V / FD6122V – Fixed Dome Network Camera
    - Vivotek VS2101 – MJPG Video Server
- Auto enrollment of LAN and WiFi cameras to the home network
- Auto Capture Of 10 Post Alarm Images Per Camera
- Auto Capture Of 5 Pre Alarm Images Per Camera
- Turn On / Off for web view according to the alarm modes
- Flip & Mirror camera images for floor and ceiling installations
- Camera Actions:
    - Pan / Tilt
    - Save Image to Local HD
    - Turn ON, OFF
    - Current View / Alarm View

Users

- 1 Master User
- 7 Standard Users

Management

- IP Address: Auto configuration or Manual Configuration
- Reset to Factory Defaults Option
- Remote Firmware Upgrade

Web Server

- Ports: 443 (SSL), 80 (HTTP)
- Ports can be changed by user
- Automatic port forwarding with UPNP support

- XHTL & WAP support for mobile phone access

Data Security

- 128Bit SSL encryption on all data transmissions to and from the Internet
- Authentication required by Username and Password
- Login brute force attack protection
- WEP, WPA and no Encryption for WiFi camera in-house image transfer

Hardware

CPU

- Intel Xscale PXA255 @ 200MHz

OS

- Montavista Linux

Memory

- 64MB Flash
- 64MB SDRAM

PowerMax+ / PowerMax PRO Connection

- RS-232

Power Supply

- Powered From PowerMax+ / PowerMax PRO via RS-232 connection

Size

- PowerLink (For PowerMax+): 200x115x55mm (7-7/8x4-1/2x3-3/16 in.)
- Internal PowerLink (For PowerMax PRO): 96X96X23mm (3-3/4 x 3-3/4 x 7/8 in.)

Weight

- PowerLink (For PowerMax+): 365g (13 oz.)
- Internal PowerLink (For PowerMax PRO): 122g (4.3 oz.)

Color

- PowerLink (For PowerMax+): Gray,
- Internal PowerLink (For PowerMax PRO): Silver

Operating Temperature

- 0ºC to 49ºC (32ºF to 120ºF)

Storage Temperature

- -20ºC to 60ºC (-4ºF to 140ºF)

Compliance with Standards

- EN 60950, EN 55022, EN 55024

Cameras

CAM3100

- Image Resolution: up to 640x480
- Effective Image Resolution: 320x240
- Image Frame Rate: QCIF@30fps,CIF@30fps, VGA@30fps
- Sensor Type: 1/4” Low Lux. CMOS sensor
- Lens: f: 4.2mm; F: 2.0, 60 degree field of view
- 6 IR LEDS
- Auto Gain Control
- Auto Exposure
- Auto White Balance
- Communication Format: LAN, 10/100Mbps, Wireless LAN 802.11g
- Power Supply: 5 VDC, 2500mA
- Picture Format: Compressed JPEG
- Color: Two tone, White and Silver
- Operating Temperature: 0˚C to 45˚C
- Storage Temperature: -15˚C to 60˚C
- Humidity: 0% to 90% non-condensing
- Compliance with Standards: FCC/CE class B

CAM3200

- Image Resolution: up to 640x480
- Effective Image Resolution: 320x240
- Image Frame Rate: QCIF@30fps,CIF@30fps, VGA@30fps
- Sensor Type: 1/4” Low Lux. CMOS sensor
- Lens: f: 4.2mm; F: 2.0, 60 degree field of view
- 7 IR LEDS
- PAN / TILT
- Auto Gain Control
- Auto Exposure
- Auto White Balance
- Communication Format: LAN, 10/100Mbps, Wireless LAN 802.11g
- Power Supply: 12 VDC, 1500mA
- Picture Format: Compressed JPEG
- Color: Two tone, White and Silver

- Operating Temperature: 0˚C to 45˚C
- Storage Temperature: -15˚C to 60˚C
- Humidity: 0% to 90% non-condensing
- Compliance with Standards: FCC/CE class B

CAM2000

- Image Resolution: up to 640x480
- Effective Image Resolution: 320x240
- Image Frame Rate: QCIF@30fps,CIF@25fps, VGA@10fps
- Sensor Type: Color CMOS
- Lens: f: 6.0mm; F: 1.8, 45 degree field of view
- Auto Gain Control
- Auto Exposure
- Auto White Balance
- Communication Format: LAN, 10/100Mbps
- Power Supply: 5 VDC, 700mA
- Picture Format: Compressed JPEG
- Color: Two tone, Silver and Bronze
- Operating Temperature: 5˚C to 40˚C
- Storage Temperature: -25˚C to 50˚C
- Humidity: 5% to 95% non-condensing
- Compliance with Standards: FCC, CE, VCCI Class B

CAM2000WL

- Image Resolution: up to 640x480
- Effective Image Resolution: 320x240
- Image Frame Rate: QCIF@30fps,CIF@25fps, VGA@10fps
- Sensor Type: Color CMOS
- Lens: f: 6.0mm; F: 1.8, 45 degree field of view
- Auto Gain Control
- Auto Exposure
- Auto White Balance
- Communication Format: LAN, 10/100Mbps, Wireless LAN 802.11g
- Power Supply: 5 VDC, 1000mA
- Picture Format: Compressed JPEG
- Color: Two tone, Silver and Bronze

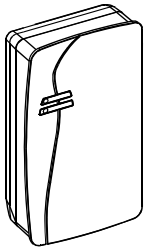
- Operating Temperature: 5˚C to 40˚C
- Storage Temperature: -25˚C to 50˚C
- Humidity: 5% to 95% non-condensing
- Compliance with Standards: FCC, CE, VCCI Class B

Installation

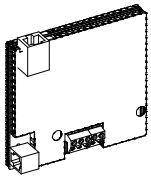
Package Contents

1 x Visonic PowerLink

External PowerLink
(For PowerMax+)

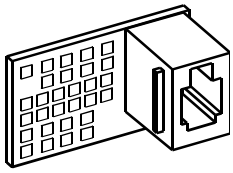


Internal PowerLink
(For PowerMax PRO)

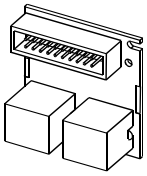


1 x PowerLink RS-232 Interface Module

For PowerMax+



Dual RS-232
(For PowerMax Pro)



1 x 2m (6.5 feet) Cat-5 Cable

1 x RS-232 Cable

1 x Mounting Kit (for PowerMax+ only)

1 x Resources CD

System Requirements

- PowerMax+ / PowerMax PRO Security System.
- High-Speed Internet connection (Cable or DSL) enabled via a Home Router (Ethernet Based).
- One free Ethernet port on the home router for the PowerLink connection.
- One free Ethernet port on the home router for IP based camera enrollment (will be freed if camera is WiFi).
- One free Ethernet port on the home router for every added Ethernet camera.
- One of the supported browsers:
    - Internet Explorer version 6.0 or up
    - Firefox version 1.0 or up
    - Safari 4
    - Opera 9
- PC running Windows® 2000, XP or Vista connected to the home router.
- Optional: WiFi 802.11b or 802.11g Access Point

Installation Procedure

The Visonic PowerLink installation procedure involves three stages:

- Hardware Installation
- Router Configuration
- Visonic PowerLink Configuration

Chapter 2: Installing the Visonic PowerLink

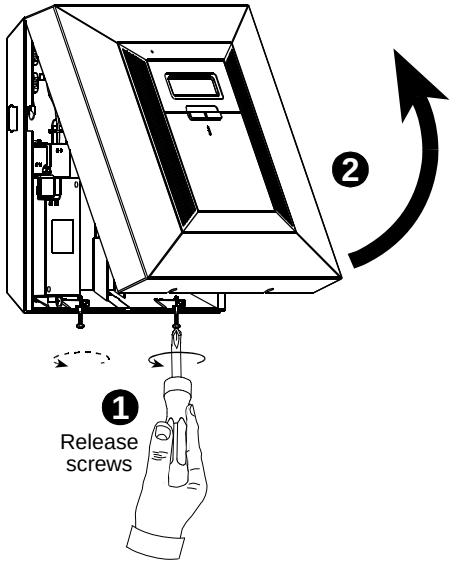
The Visonic PowerLink installation procedure involves the following stages:

- Hardware Installation
- Router Configuration
- Visonic PowerLink Configuration

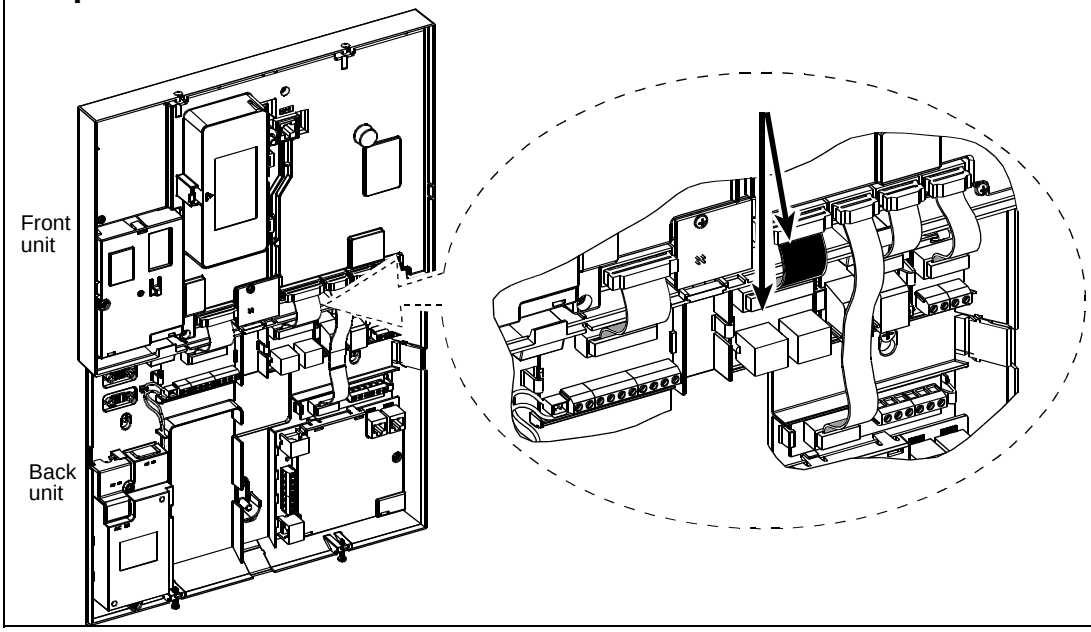
Hardware Installation

For PowerMax PRO:

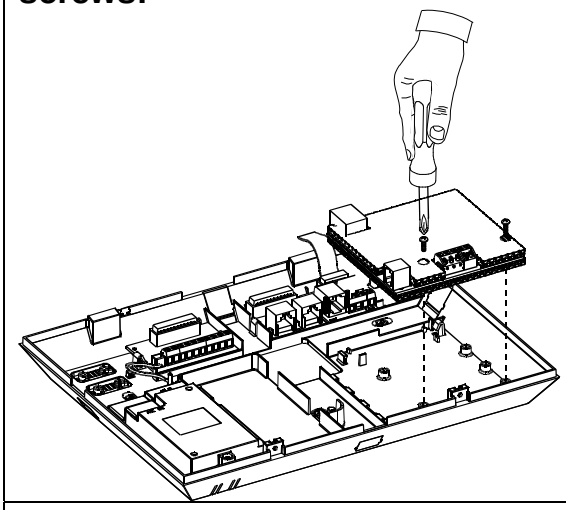
Step 1. Open the PowerMax Pro:



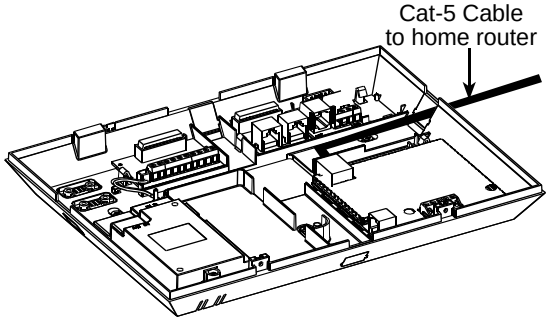
Step 2. Install the dual RS-232 module and connect its flat cable:



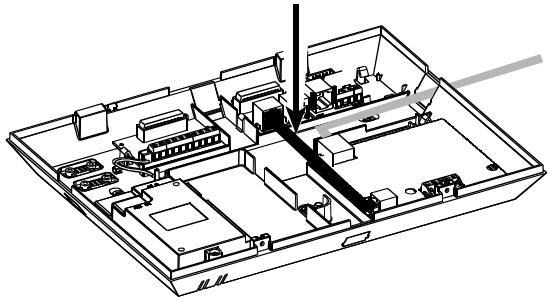
Step 3. Plug in the Internal PowerLink and fasten it with 2 screws:



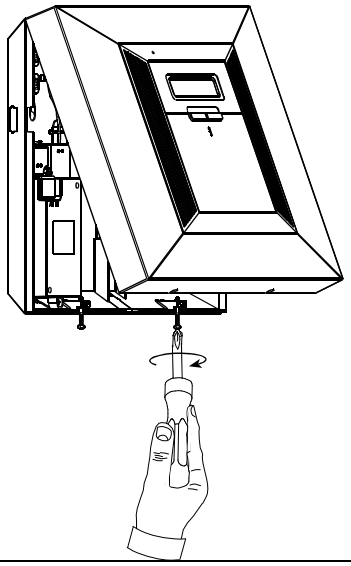
Step 4. Connect the PowerMax PRO to the home router:



Step 5. Connect internal PowerLink to the dual RS-232 module:



Step 6. Close the panel and secure with 2 screws:



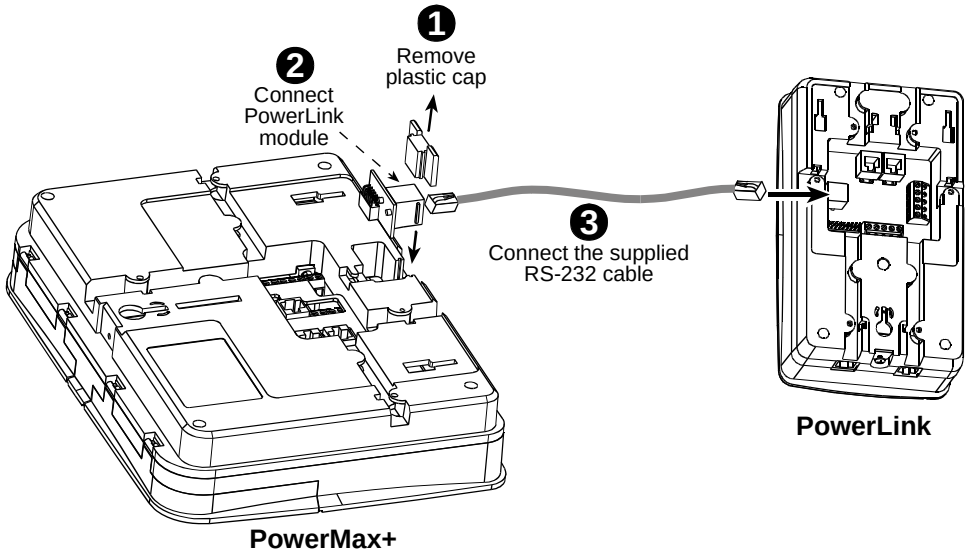
For PowerMax+:

Step 1: Connecting the Visonic external PowerLink to the Home Router

Use the supplied Cat-5 cable to attach the Visonic PowerLink's LAN port to one of the free LAN ports of the Home Router.

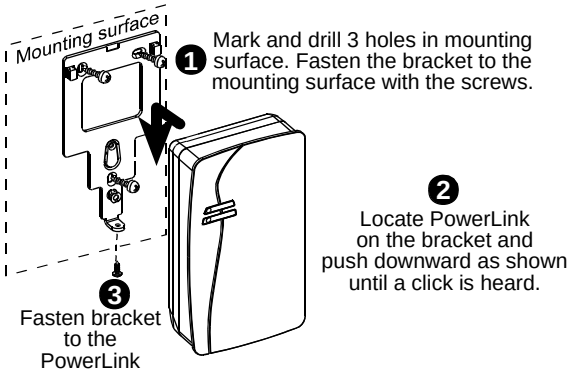
If an Ethernet infrastructure exists in your house, you can connect the Visonic PowerLink to the Home Router through a network wall outlet. Use the supplied Cat-5 cable to connect the LAN port of the Visonic PowerLink to the Network wall outlet.

Step 2: Connecting the Visonic PowerLink to the PowerMax+



Note
Make sure the distance between the Visonic PowerLink and the PowerMax+ Control Panel does not exceed the length of the cable.

Step 3: Wall Mounting the Visonic PowerLink

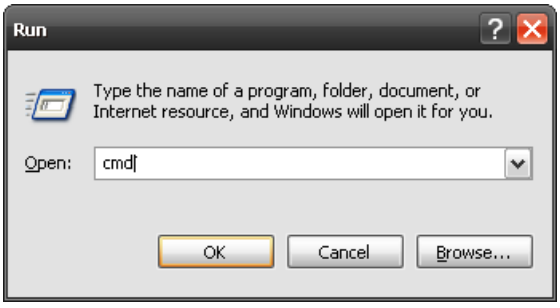

Mounting surface
1 Mark and drill 3 holes in mounting surface. Fasten the bracket to the mounting surface with the screws.
2 Locate PowerLink on the bracket and push downward as shown until a click is heard.
3 Fasten bracket to the PowerLink

Router Configuration

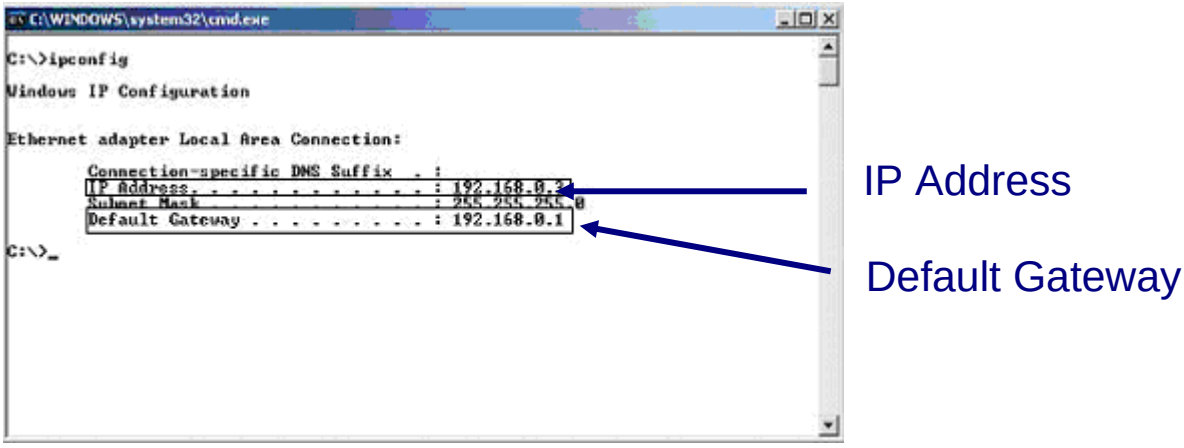
After installing the hardware you need to configure the Home Router. Different Home Router models have different login interfaces and configuration. The following section includes a general description of the procedure and an example of a specific Home Router model. Router specific instructions and guides for port forwarding can be found at http://www.portforward.com.

Step 1: Determining the IP Addresses of Home Router and Visonic PowerLink

1. Make sure you have in front of you the Visonic PowerLink Installation Form - see appendix A.
2. On your PC click **Start** > **Run**.
3. In the **Open** text box type `cmd` and click **OK.**



4. at the **Command Prompt** type `ipconfig` and press Enter


C:\WINDOWS\system32\cmd.exe
C:\>ipconfig
Windows IP Configuration
Ethernet adapter Local Area Connection:
Connection-specific DNS Suffix . :
IP Address. . . . . : 192.168.0.3
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.0.1
C:\>_
IP Address
Default Gateway

5. Copy the Default Gateway IP Address as the Home Router IP Address Value in the Visonic PowerLink Installation Form (See appendix A).
6. Copy the first three blocks of the IP Address to the Visonic PowerLink IP Address Value in the Visonic PowerLink Installation Form (the last block of the IP Address is 200, see Appendix A).

Example: The **Default Gateway** value is 192.168.0.1:

The Home Router IP Address is 192.168.0.1.

The **IP Address** value is 192.168.0.3:

The Visonic PowerLink IP Address is 192.168.0.200.

Step 2: Logging In to the Router

You are required to login to your Router configuration interface.

1. Open your Internet Browser and in the Address line type `HTTP://<Home Router IP Address>`. Replace `<Home Router IP Address>` with the value of "Home Router IP Address" from the Installation form (see appendix A).
2. Once the Login page appears, type a username and a password to login.

Different Routers have different login interfaces. Refer to your Router's manual for instructions.

If you are unable to login, call your home router installer or Internet service provider for assistance.

Step 3: Port Forwarding Configuration

Router port forwarding guides for your router can be found at http://www.portforward.com.

1. In your Router's window, locate the **Port Forwarding** configuration screen.
2. Set the Port Forwarding IP Address to the value of **Visonic PowerLink IP Address** from the Installation Form (see appendix A).
3. Set Protocol to TCP.
4. Set all port related fields to **443**
5. If requested, set the Port Forwarding rule name to **PowerLink**.
6. Save the information.
7. If requested, restart the router and wait for the router to restart

Step 4: Wi-Fi (Wireless Network) Configuration

Perform this step if you intend to connect wireless cameras to the Visonic PowerLink.

1. In your Router Configuration window, locate the **Wireless Network** configuration screen.
2. Set a value for the SSID. Changing the default SSID value is recommended to ensure a secured wireless network.

3. In the Visonic PowerLink Installation Form (see appendix A), write down the value of SSID for future reference.
4. Select a Channel. (You can pick any channel. The default channel is usually 6).
5. Mark the selected channel in the Visonic PowerLink Installation Form (Appendix A).

Step 6: Wi-Fi Encryption Configuration

PowerLink supports three encryption methods:

1. No encryption
2. WEP 64bit / 128bit
3. WPA

Enabling encryption on your Wi-Fi network is highly recommended and ensures that any information transferred on the Wi-Fi network such as camera images is secured against unauthorized viewers.

Refer to your router user's manual in order to set up encryption.

Some routers need restart in order to apply the settings. Please make sure to restart the router if restart is needed.

Visonic PowerLink Configuration

Step 1: Logging-in to the Visonic PowerLink

1. Before logging-in, the PowerLink has to be enrolled to the PowerMax+ / PowerMax PRO. In order to enroll the PowerLink:
   - On the PowerMax+ / PowerMax PRO, enter the "USER SETTING" menu.
   - Choose "DEFINE PWRLNK" -> "Install".
   - Press "Show/OK". Wait for the confirmation sound.
   - Press "Away". Press "Show/OK".
2. Open your Internet Browser and in the Address line type `HTTP://< Visonic PowerLink IP Address>.` Replace `<Visonic PowerLink IP Address>` with the value of "PowerLink IP Address" from the Installation form (see appendix A).

3. In Visonic PowerLink's Login screen: enter the Username and Password.

   Default Username and Password values (if not changed by owner or installer):

   Username: Admin

   Password: Admin123

Note

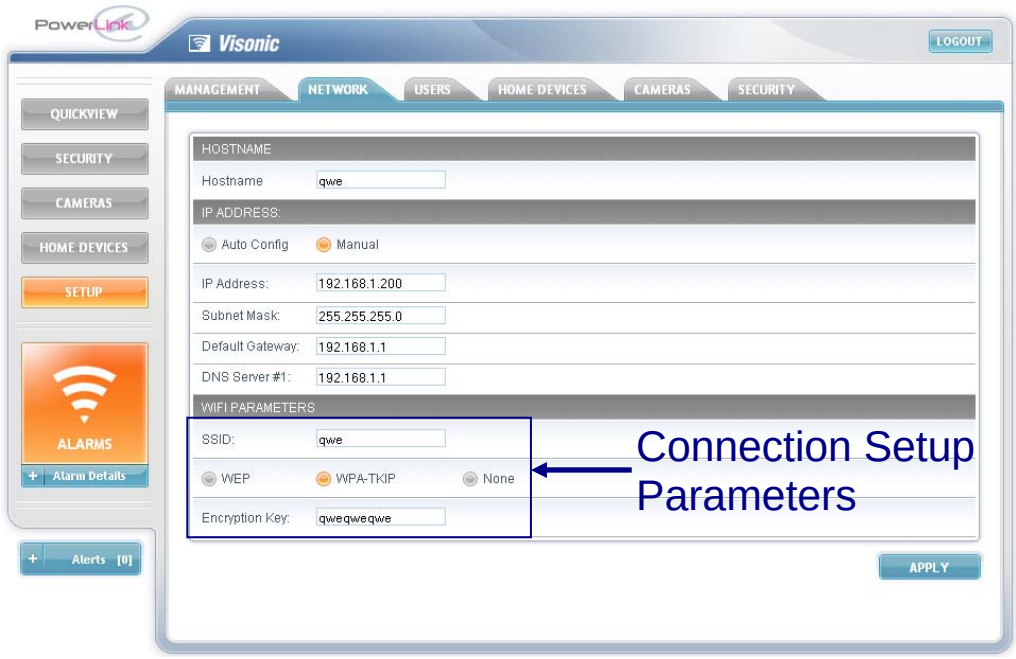
Username and Password are case-sensitive.

4. Click **Login** >>.

If you are unable to login, call your Visonic PowerLink service provider for assistance.

Step 2: Connection Setup

1. In the left frame of the Visonic PowerLink window click **SETUP**.
2. Click the **NETWORK** tab.
3. Copy the **SSID** from the Visonic PowerLink Installation Form (see appendix A).
4. Choose your wireless encryption method
5. In the **Encryption Key** field type the Key String according to the Visonic PowerLink Installation Form (Appendix A).



6. Click **Apply**.

Step 3: Home Devices Customization

You need to select a type and define a name for each Home Automation device enrolled in your PowerMax+ / PowerMax PRO Control Panel.

We recommended that you define the name of a device so it helps identifying it.

Skip this step if you do not have any Home Automation devices enrolled into the system.

1. In the left frame of the Visonic PowerLink window click **SETUP**.
2. Click the **HOME DEVICES** tab.
3. In the **Set Device Name And Type** screen you can:

   Type a new name in the **DEVICE NAME** field.

   - or -

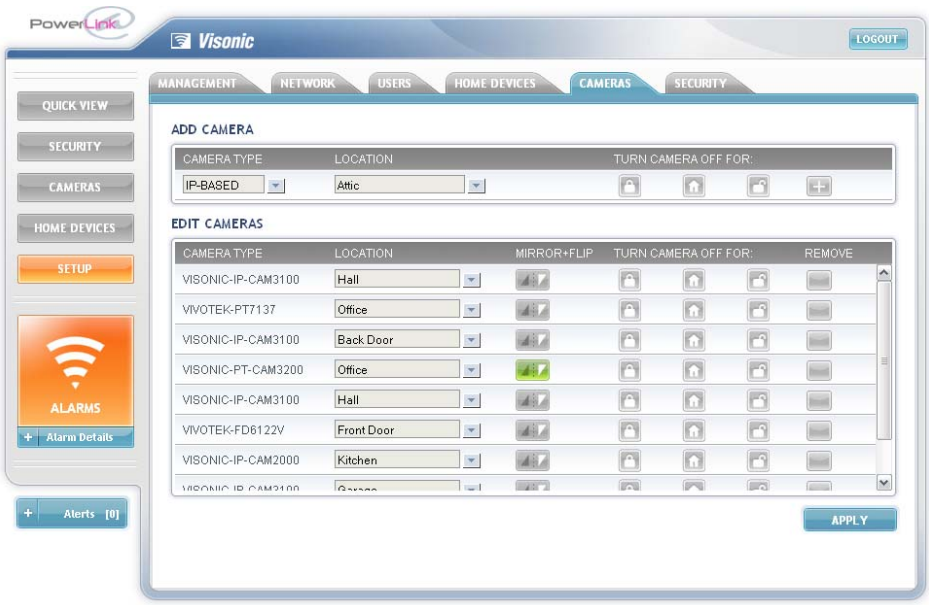
   Click the arrow next to the **TYPE** field and in the window click a device type.

4. Click **Apply to save your changes**.

Step 4: Adding Cameras

If you have cameras connected to the Visonic PowerLink you need to configure the cameras. This enables viewing the image on a remote computer

1. In the left frame of the Visonic PowerLink window click **SETUP**.
2. Click the **CAMERAS** tab.



➢ ***To add a camera to the Visonic PowerLink:***

Note
Wired and Wireless cameras, when added, must be connected to the Router one by one.

Please refer to the specifications page for a list of supported cameras

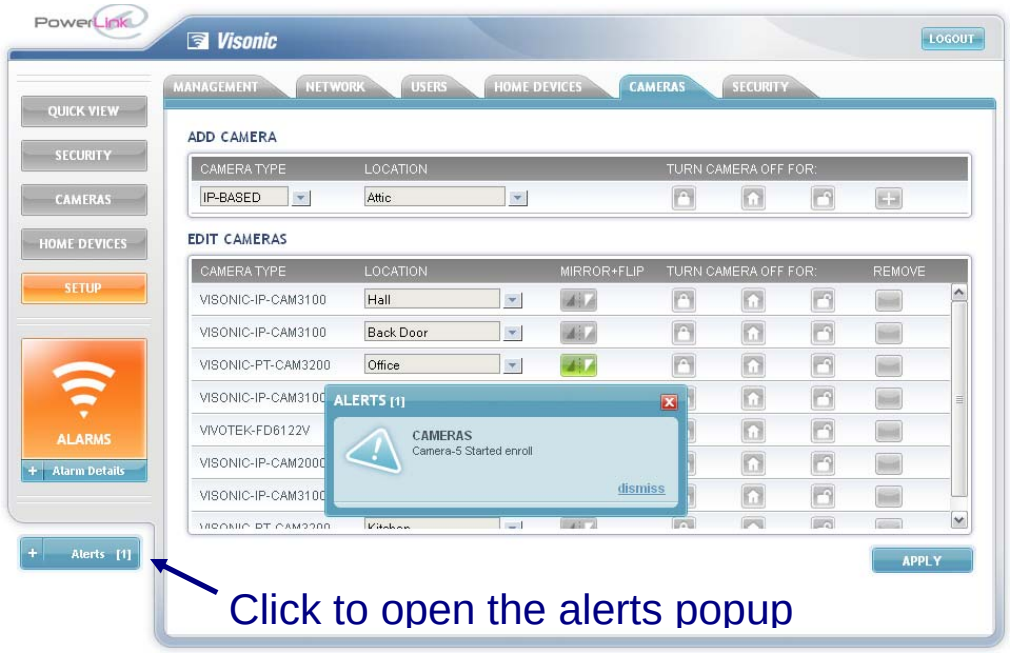
1. Connect the camera to the Home Router (or to an Ethernet wall outlet) using the supplied Cat-5 cable **and to the mains**.
2. Wait for the camera to connect to the network
3. Locate the **ADD CAMERA** area. In the **CAMERA TYPE** list click and select Network.
4. In the Location list click and select a location from the list.
5. You can disable web viewing of the camera by choosing at which arming mode the camera will be turned off. Clicking an arming mode icon will apply a small X to it, meaning that at this arming mode the camera will be off.

6. Click to start the camera enrollment

A message will indicate that enrollment is starting:

You can continue browsing the PowerLink web interface, the enrollment process will continue at the background.

From this point the enrollment messages will be visible at the alert popup:



Clicking on **dismiss** will dismiss the message and it will disappear from the popup.

Step 5: Adding Users

The Visonic PowerLink is pre-configured with a Master user called **Admin**. Only the Master user can access the **SETUP** screens of the Visonic PowerLink's interface. We recommend you first change the username and password of the Master user and save the username and password in a safe place.

1. In the left frame of the Visonic PowerLink window click **SETUP**.
2. Click the **USERS** tab.

➢ ***To change the Master user's name and password:***

1. Click the **EDIT** button under the PROFILE title.
2. Change the username from **Admin** to your own user name.
3. Change the password to your own password.
4. Repeat this step in the **Confirm Password** area.
5. Click **APPLY**.

➢ ***To add a user to the Visonic PowerLink:***

1. Click **NEW** and set the following parameters:

   Username - The user name used for logging in to the web interface.

   Password – Login password. (You need to re-enter the password to confirm).

   Mobile - The mobile phone number to which notifications are sent.

   Email - The email address to which notifications are sent.

   PowerMax User# - Attach the PowerLink user name to the PowerMAX user number.

2. Click **APPLY**. The user is added to the **ADDITIONAL USERS** list.

Chapter 3: Logging Into The Visonic PowerLink

You log in to the Visonic PowerLink through the Internet Browser.

After you log in the Quick View window is displayed with an overall view of the security system. Loading time of the Quick View screen may vary due to the heavy amount of data presented. First time loading is expected to take longer than future loading times.

➢ ***To login to your Visonic PowerLink***

1. Open your Internet Browser.
2. In the **Address** line, type the address given to you by the installer.

If you have installed the Visonic PowerLink yourself, use the following addresses:

From within the house:

http://<PowerLink IP Address>. Replace **<PowerLink IP Address>** with the PowerLink IP Address value from your installation form (see appendix A).

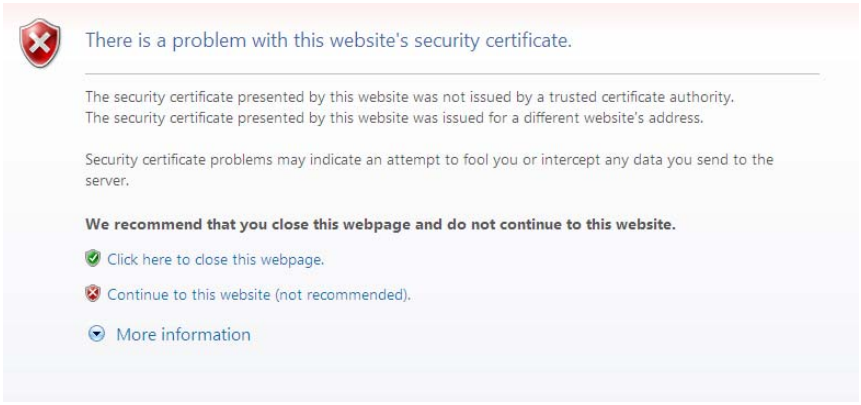
From a remote computer:

http://myhome.visonic.com/<PowerLink ID> Replace **<PowerLink ID>** with the PowerLink ID value from your installation form (Appendix A). By default, your **PowerLink ID** is equivalent to your PowerLink **Serial Number (displayed in the SETUP menu).**

3. A Security Alert message will be displayed:
   a. In Microsoft Internet Explorer 6, click **Yes**:

Security Alert
Information you exchange with this site cannot be viewed or changed by others. However, there is a problem with the site's security certificate.
The security certificate was issued by a company you have not chosen to trust. View the certificate to determine whether you want to trust the certifying authority.
The security certificate date is valid.
The name on the security certificate is invalid or does not match the name of the site
Do you want to proceed?
Yes
No
View Certificate

b. In Microsoft Internet Explorer 7 and 8, click on **Continue to this website**:


There is a problem with this website's security certificate.
The security certificate presented by this website was not issued by a trusted certificate authority.
The security certificate presented by this website was issued for a different website's address.
Security certificate problems may indicate an attempt to fool you or intercept any data you send to the server.
We recommend that you close this webpage and do not continue to this website.
Click here to close this webpage.
Continue to this website (not recommended).
More information

Different browsers would display different Security Warnings that might not look similar to the Internet Explorer examples brought above.

4. Wait for the **Login** page to load.

5. In Visonic PowerLink's Login screen type the Username and Password.

   Default Username and Password values (if not changed by owner or installer):

   Username: **Admin**

   Password: **Admin123**

   Note that Username and Password are case-sensitive.

6. Click **Login** >>.

   If you are unable to login, call your Visonic PowerLink service provider or Installer for assistance.

   Once you have logged in, the Quick View screen appears.

Visonic PowerLink Window

The Visonic PowerLink window displays the different views that enable managing the PowerMax+ / PowerMax PRO Security System, Home automation devices and Cameras via the Internet:

Quick View: Displays an overall view of the system status including video camera images.

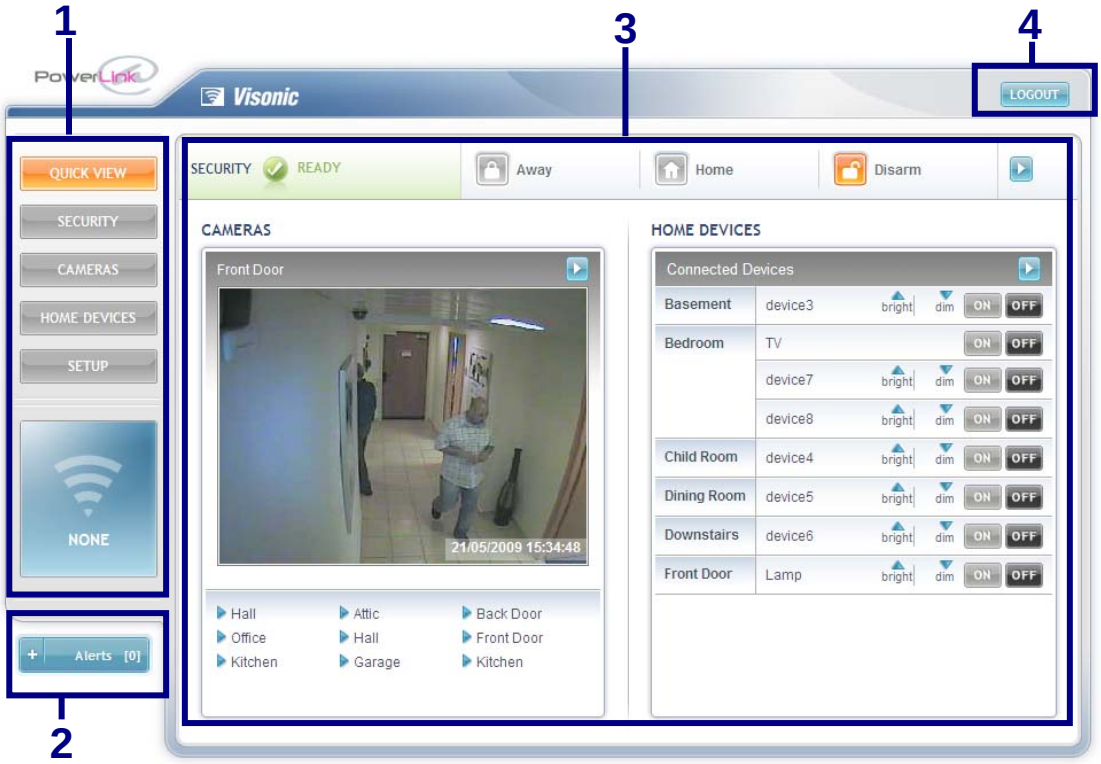
Security View: Gives a detailed overview of the security system including the current mode and status of the security system, detectors and accessories.

Cameras View: Used to view images from the connected cameras.

Home Devices View: Enables quick and efficient management of the home devices controlled by the PowerMax+ / PowerMax PRO Security System.

Setup View: Used for system configuration and viewing the PowerMax+ / PowerMax PRO log.

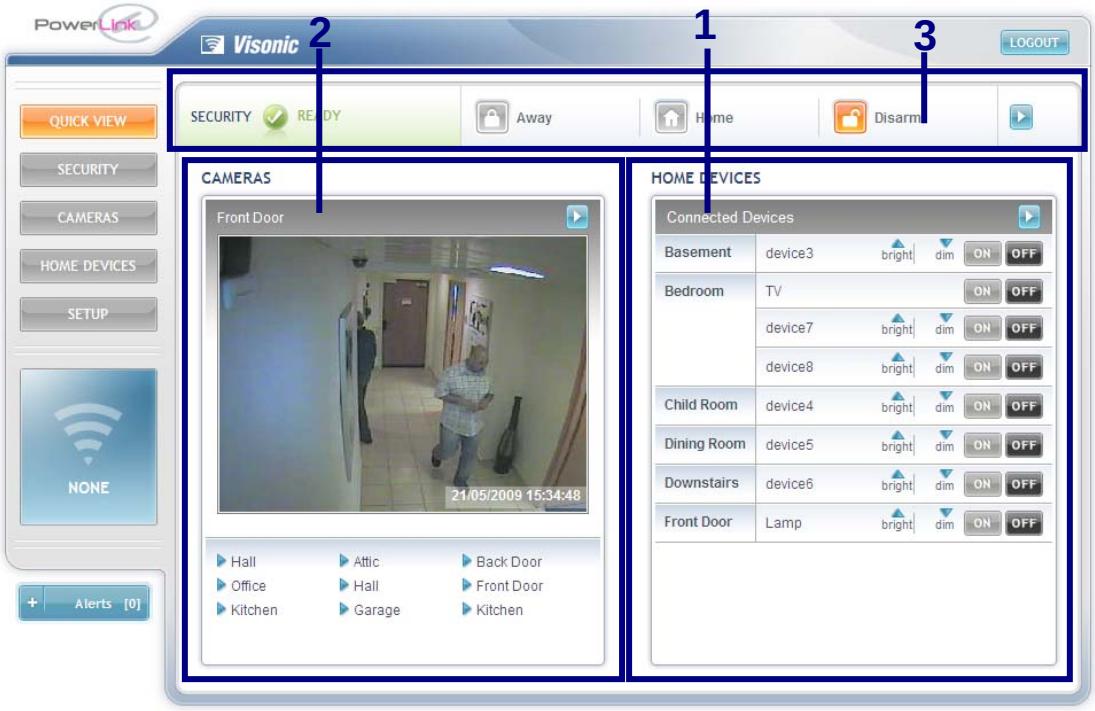
In all views the Visonic PowerLink window includes the following components:



1 – **Side Menu**: Click to display the different Views.
2 – **Alerts Indicator**: Click to display current system alerts. The Alerts Indicator displays the number of current alerts within the system.
3 – **Work Area**: Use to display video, system information and configuration data.
4 – **Logout**: Click to logout.

Quick View

When you log into the Visonic PowerLink, the application opens in Quick View. The Quick View screen displays an overall view of the current status of the house subsystems controlled by the PowerMax+ / PowerMax PRO Security System in three Information panes:



1 – Home Devices Pane

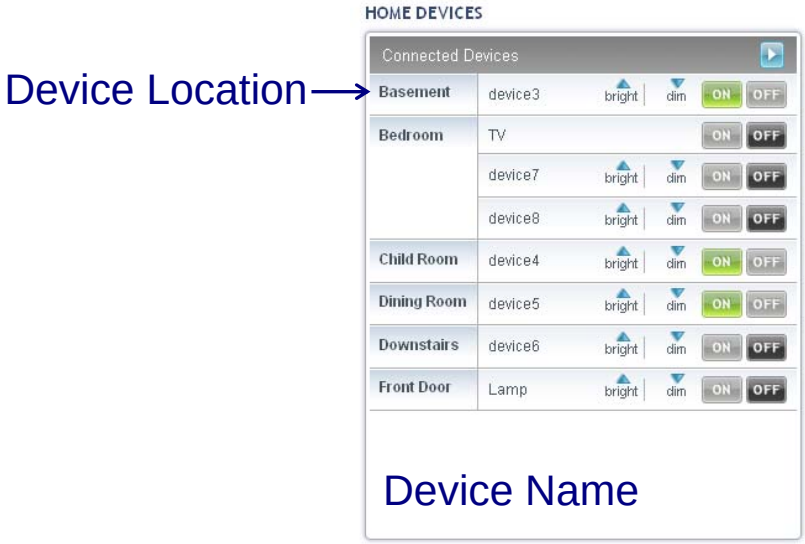
2 – Cameras Pane

3 – Security Pane

In the following sections each Information pane of the Quick View screen is described in detail.

Home Devices Pane

This pane displays the status and actions of the different home automation devices enrolled in the system.



The **Connected Devices** list includes information for all the home automation devices currently enrolled to the PowerMAX:

- Device name or Type – can be defined in the Home Devices screen accessed from the SETUP page.
- Device location, as defined in the PowerMax+ / PowerMax PRO Security Control Panel.
- Available actions for a home automation device. These vary according to the device type. For example: a lamp can be dimmed and brightened. A heater can be set to a warmer or cooler temperature. The text on and above the action buttons describes the functionality for the specific device.

To deactivate an active device: Click the

icon of the required device.

To activate an inactive device: Click the

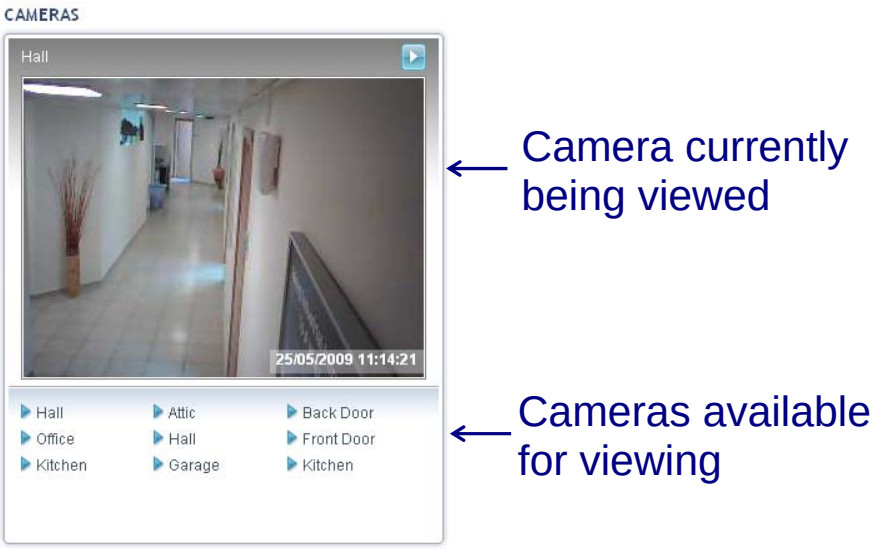
icon of the required device.

To jump to the Home Devices page: Click the icon at the top right of the pane.

Cameras Pane

The Cameras pane displays video from the video cameras enrolled in the system.

Note
Camera location can be defined in the **Cameras** screen (see Managing Cameras on page 19).



To view a camera: Click the camera name from the list of available cameras. The view will change to the selected camera and the name of the camera will be displayed at the top.

To jump to the Cameras page: Click the icon at the top right of the pane.

Security System Pane

This pane displays the system status as seen on the LCD screen of the PowerMax+ / PowerMax PRO Security System and enables changing the arming mode.

➢ ***To set an arming mode:***

1. Click the required arming mode in order to set the Security System to the selected mode. Current mode is colored Orange.

To jump to the Security page: Click the icon at the top right pane.

Chapter 4: Managing Alerts and Alarms

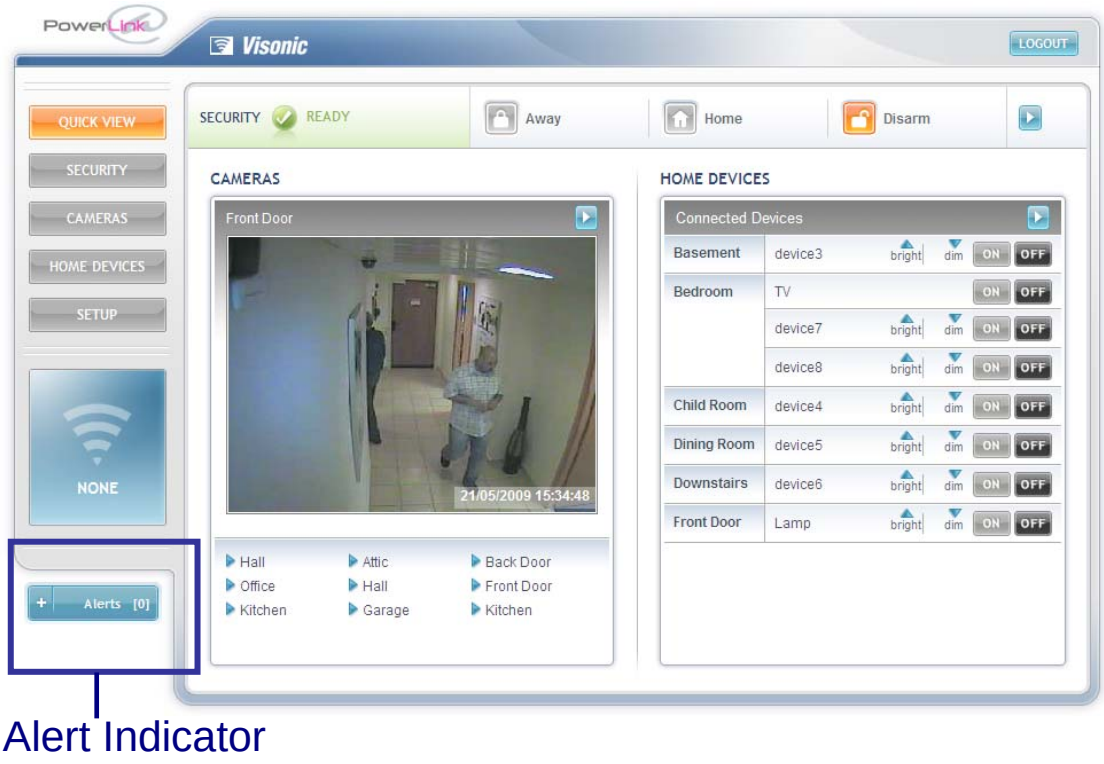
The PowerMax+ / PowerMax PRO Security System distinguish between two major event types: Alarms and Alerts. Alarms are events that indicate that the security system is alarmed due to a burglar intrusion, a panic situation, an emergency situation or any other situation that is declared as an alarm situation.

All trouble events or events that do not put the security system into Alarm mode are considered Alerts and should be treated as soon as possible. Alerts do not usually affect the security system immediate behavior.

All Alert and Alarm details are written to the PowerMax+ / PowerMax PRO.

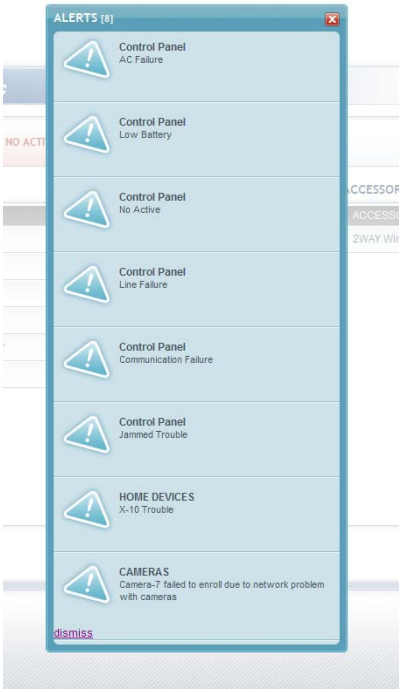
System Alerts

If an Alert situation exists in the system, the Alerts Indicator appears in any Visonic PowerLink screen. The Alerts Indicator displays how many alerts there are in the system at the moment.



Alert Indicator

Clicking on the alert indicator will open the alert popup. The alert popup displays the alerts details.



Some alert messages such as Camera Enrollment messages can be dismissed and removed from the list. This can be done by clicking the ***dismiss*** link in the specific message.

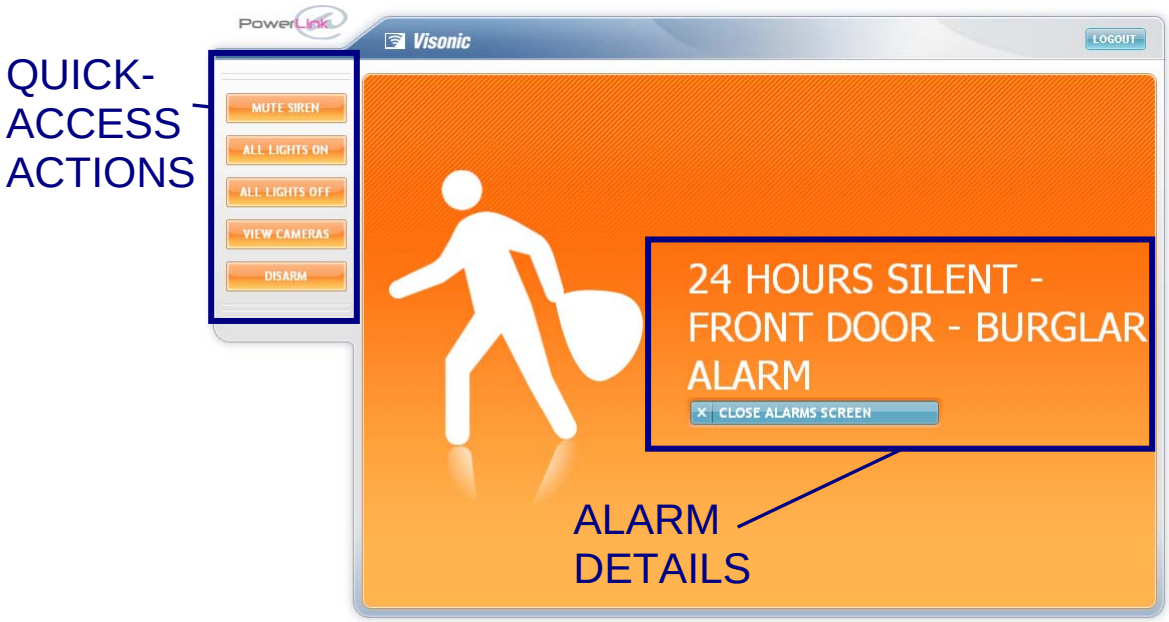
The Visonic PowerLink alert popup displays Alert indications as long as alerts exist in the security system.

Once an alert is treated the Alert details are removed from the Alert Indicator and alert popup automatically. If there aren't any alerts in the system, the Alert Indicator would show the number zero.

System Alarms

The Visonic PowerLink treats Alarm situations in a special way. In an Alarm situation, the whole window changes into the Alarm mode screen.

The Alarm mode screen displays the alarm type, date and time. It includes quick-access buttons to alarm time actions.



The Quick-access buttons enable you to do the following:

- Mute the security system siren.
- Turn all lights off or on.
- View video cameras.
- Disarm the Security system.

Viewing Cameras during an Alarm

During an alarm you can view video recorded by the cameras from the pre-alarm time (if pre-alarm time is configured) onward.

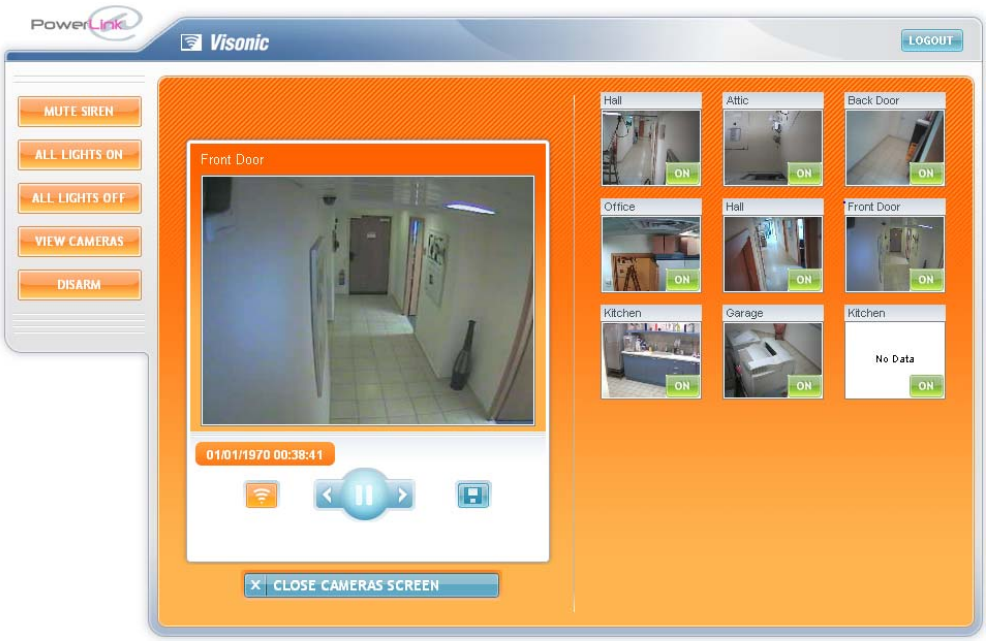
You can also choose to view live video from the cameras.

➢ ***To view video cameras:***

1. In the Alarm mode screen click the Video Cameras icon

.

The Work area displays the Cameras View in Alarm mode. All cameras titles indicate **Alarm View** - recorded video from the alarm period.



2. You can now do any of the following:

- Click to display currently viewed video.

Note

You can then click to return to recorded video.

- Click to open the **Save As** window and save the image as a graphic file on your computer.
- Use the controls to Play, Pause and move the recording frame by frame

Note

For a detailed description of Cameras view see Managing Video Cameras on page 19.

Closing the Alarm Mode Screen

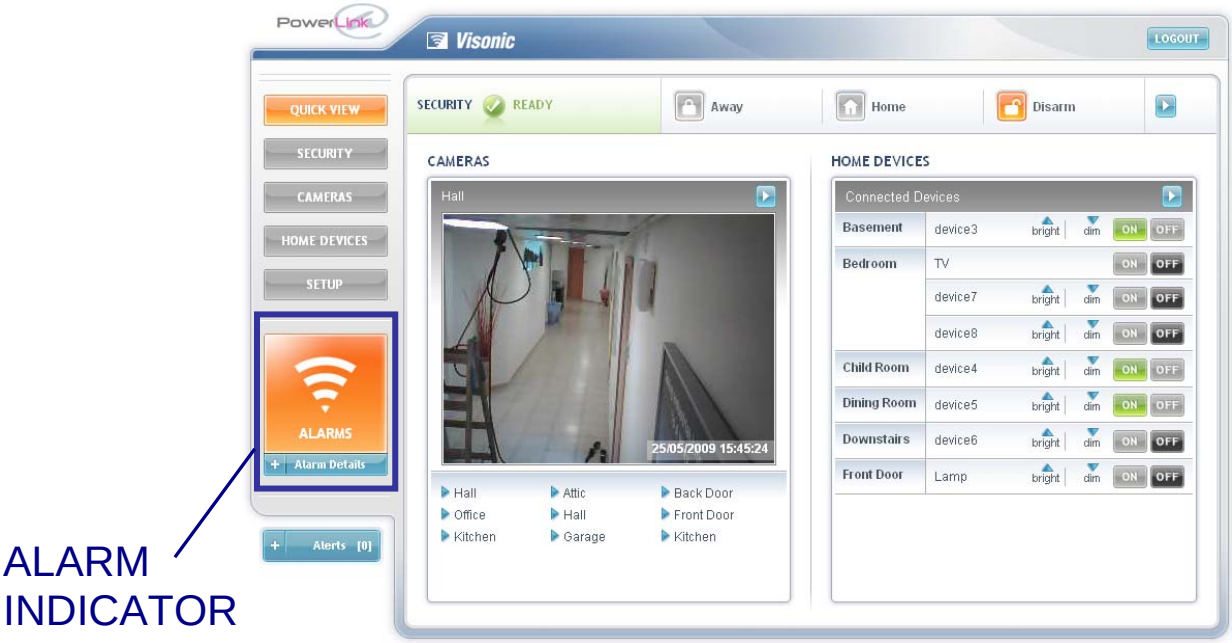
You can close the Alarm mode screen. Once the alarm mode screen is closed, an alarm indication is displayed on all Visonic PowerLink screens. You can click the Alarm indicator at any time to return to the Alarm mode screen. The alarm indication disappears only when the alarm is cleared from the security system's memory.

➢ ***To close the Alarm mode screen:***

1. Click the Close Alarm Screen icon

.

The normal Visonic PowerLink window re-appears with the Alarm indicator.



Note
Click the Alarm Indicator to re-display the Alarm mode screen.

Chapter 5: Managing Home Devices

The Visonic PowerLink enables PowerMax+ / PowerMax PRO users that have an X10 transmitter module connected to the PowerMax+ / PowerMax PRO control panel and X10 enabled appliances around the house to control these home devices over the Internet. The Visonic PowerLink allows the end-user to manage the different appliances (Turn On, Off), attach descriptions and locations to each appliance, view the current status of the appliance (On, Off) as well as the ability to receive notifications on appliance status changes and troubles.

The Home Devices view enables quick and efficient management of home devices enrolled in the PowerMax+ / PowerMax PRO security system.

Viewing Device Information

The Home Devices View is separated into four tabs in which the home devices are displayed filtered by:

- Device Status
- Device Type
- Device Location
- Search

The tabs display relevant information for each home automation device as well as functionality actions.

Functionality actions for a home automation device vary according to the device type. For example a lamp can be dimmed and brightened; a heater can be set to a warmer or cooler temperature. The text on and above an action buttons describes the functionality for a specific device.

Note
To use the functionality click the ▲ and ▼ icons of the action.

A search engine enables a direct search of a specific home device by the device name (see Searching for a Specific Device by Name on page 19).

In the following sections each tab is described in detail.

In each of the filtering tabs you can activate or deactivate the home automation devices.

➢ ***To display the Home Devices View:***

1. In the side menu of the Visonic PowerLink window click HOME DEVICES.

The Home Devices view is displayed.

➢ ***To activate / deactivate a home automation device:***

1. Select one of the tabs and locate the required home automation device (see the following sections for a detailed description of each tab).

2. You can now do one of the following:

- **To deactivate an active device: Click the** **icon of the required device.**
- **To activate an inactive device: Click the** **icon of the required device.**

Filter by Device Status

The **By Device Status** tab displays two lists:

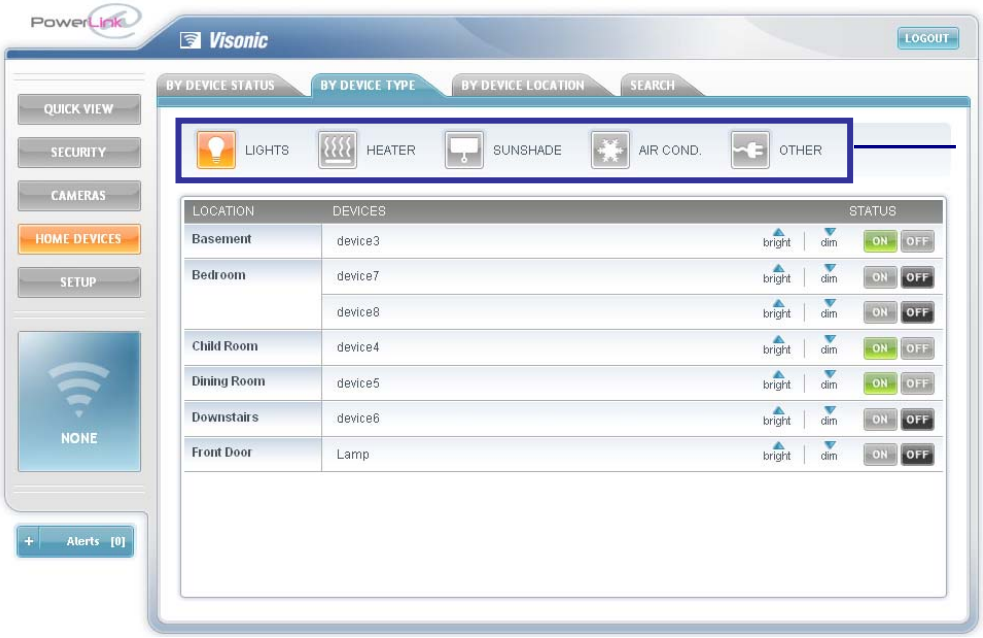
- **Active Devices List**: Includes all home automation devices currently turned ON. This list appears on the left side of the Work Area.
- **Inactive Devices List:** Includes all home automation devices currently turned OFF.

The lists display the following information for each home automation device:

- Device location as defined in the PowerMax+ / PowerMax PRO security control Panel.
- Device name or description as defined by the Master user in the SETUP screen.
- Functionality actions according to device type.
- Device status: whether the device is active (ON) or inactive (OFF).

Filter by Device Type

The **By Device Type** tab lists all home automation devices of a selected type.



➢ ***To display devices according to device type:***

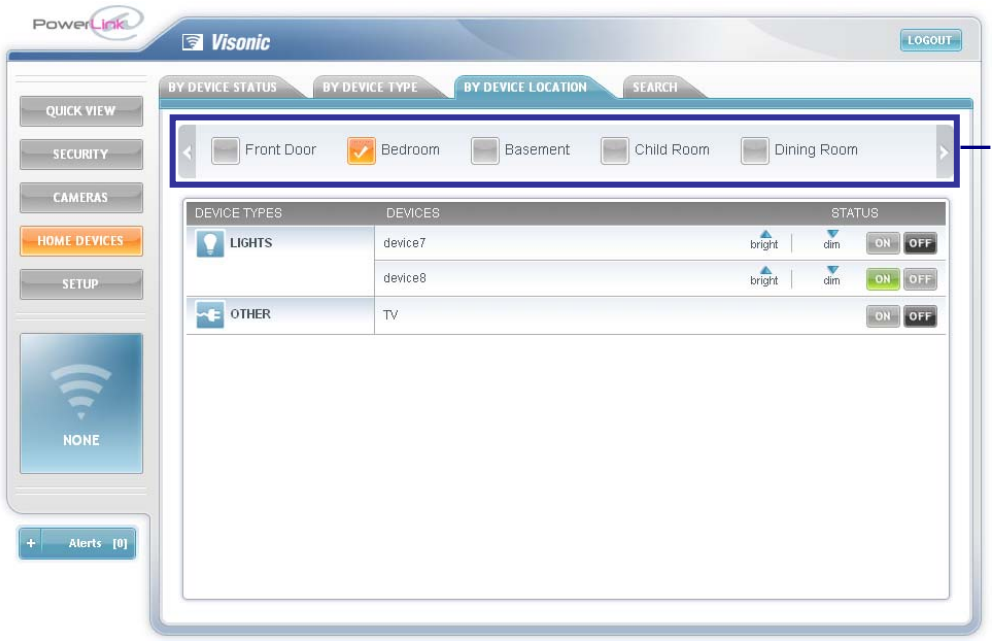
1. Switch to Home Devices view and click the By Device Type tab.
2. Click the Device Type icon of the type you require.

All devices of this type are listed with the following information:

- Device location
- Device name or description.
- Functionality actions according to device type.
- Device status: ON / OFF.

Filter by Location

The **By Location** tab lists all home automation devices by their location as defined in the PowerMax+ / PowerMax PRO security control Panel.



➢ ***To filter devices according to location:***

1. Switch to Home Devices view and click the By Location tab.
2. Click the device location icon of the location you require.

Note

To scroll through the location list use the icons.

All devices of this location are listed with the following information:

- Device type icon
- Device name or description.
- Functionality actions according to device type.
- Device status: ON / OFF.

Editing Device Setup

You can change a device name and type of an existing home automation device enrolled in the system.

Important
Make sure you configure the device type correctly as the Visonic PowerLink adjusts the home automation control according to the device type.

➢ ***To edit the name or type of a device:***

1. In the side menu of the Visonic PowerLink window click

.

2. Click the **Home Devices** tab.
3. In the **Home Devices** screen you can:
    - Type a new name in the **DEVICE NAME** field.
    - Click the arrow next to the **TYPE** field and in the window that appears click a new device type.

4. Click **Apply**.

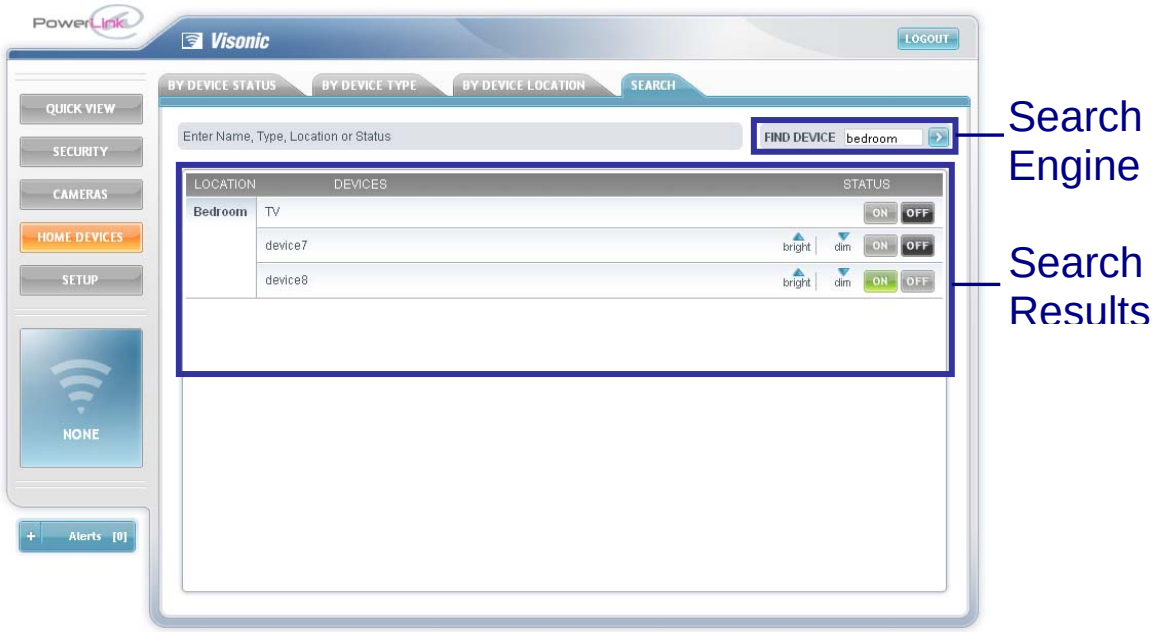
Searching for a Specific Device by Name

A search engine enables a direct search of a specific home device by the device name.

➢ ***To search for a specific device in the Devices View screen:***

1. Switch to Home Devices view and click the Search tab.
2. Type a device name, location, type or status in the **Find Device** text box and click the button.

Matching results appear in the body of the tab.



Chapter 6: Managing Video Cameras

The Visonic PowerLink supports up to 14 cameras. Cameras can be Wired (RS-485, Ethernet) or Wireless (Wi-Fi). Users who purchase the Visonic PowerLink along with cameras can view the camera images on-line over the Internet.

For each connected camera, the Visonic PowerLink stores 5 frames of pre-alarm and 10 frames of post-alarm images. Images are stored at the time of alarm and can be used to verify the alarm by the user or alarm central station.

PowerLink keeps your privacy by allowing choosing arming modes of the alarm system in which a camera will be blocked for viewing from the web interface.

The Visonic PowerLink can control a variety of cameras. CAM1000 and CAM2000 are **wired**. CAM2000WL, CAM3100 and CAM3200 cameras are **wireless** cameras. CAM1000 cameras are connected directly to the Visonic PowerLink while CAM2000, CAM2000WL, CAM3100 and CAM3200 cameras are connected to the Visonic PowerLink via the Home Router or Wi-Fi Access Point.

Note
The Visonic PowerLink also supports a veriaty of non Visonic cameras. A list is available at the **specification** page.

CAM1000

CAM2000

CAM2000WL

CAM3100

CAM3200

➢ ***To display the Cameras View:***

1. In the side menu of the Visonic PowerLink window click

.

The Cameras view is displayed.

The current view from each of the cameras enrolled in the system is displayed with the current image time and date.

To view a camera click the desired camera from the **Available Cameras** pane and it will open at the **Current view** pane.

Important
A camera displaying **No Data** means that the PowerLink can not retrieve the images from the camera. This might be a short network hiccup or a communication problem.

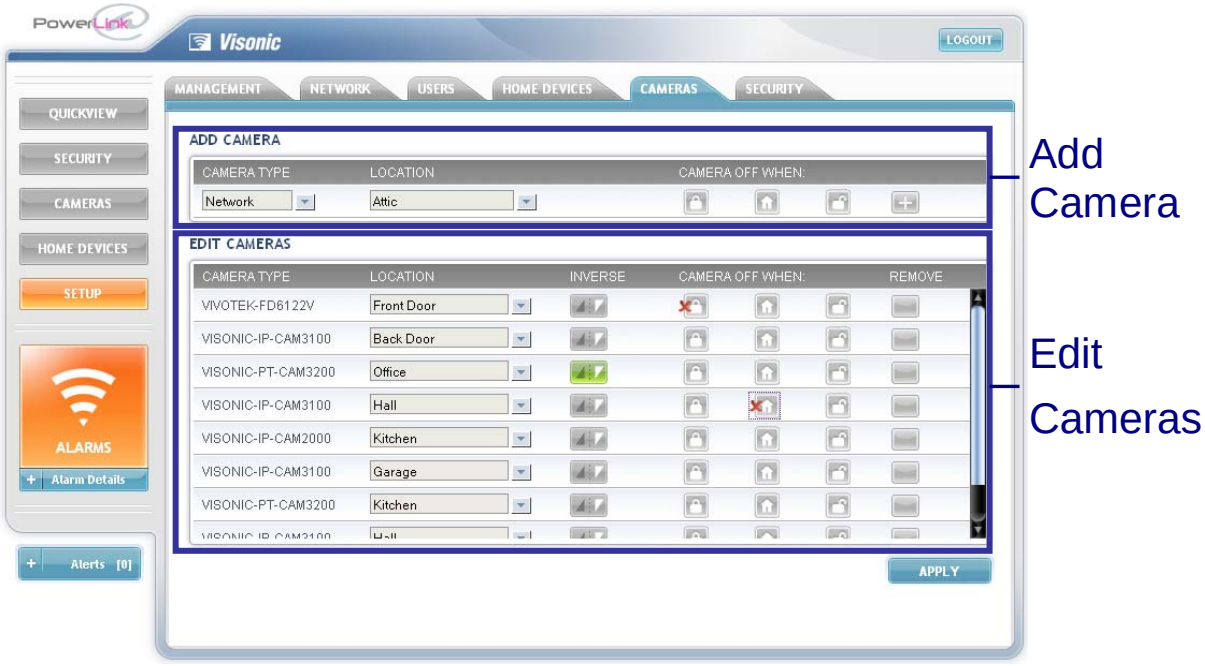
A camera displaying **Not Allowed** means that the Master User disabled viewing of this camera from the web interface at this arming mode.

For each camera you can now do any of the following:

- Click the ON and OFF icons to switch camera preview ON or OFF.
- Click the icon to switch the camera view to the stored images from the last alarm in the house. Clicking on the icon again returns camera the current view of the house.
- Click the icon to open the **Save Picture** window and save the image as a graphic file to the local hard drive.
- For cameras that support Pan & Tilt, use the to control the direction to which the camera is pointing.

Camera Configuration

You can enroll new cameras to the PowerLink, remove enrolled cameras and change the configuration of the cameras enrolled in the system. You can change the location, the orientation (flip & mirror) and on which arming modes the camera would not be accessible from the web interface.



➢ ***To edit the video camera configuration of the system:***

1. In the side menu of the Visonic PowerLink window click

.
2. Click the **Cameras** tab.

For each camera you can edit the following:

- Click the arrow next to the **LOCATION** field and in the window that appears click a new Location for the camera:

- Click the icon to invert the camera feed to allow installing the camera upside down. The color of the icon will change to green when the camera feed is flipped and mirrored.

- Click the icon to block viewing this camera from the web interface when the alarm system is in **AWAY** arming mode (Alarm images will still be recorded). The icon will change to indicating that this camera is blocked when alarm system is in **AWAY** arming mode.
- Click the icon to block viewing this camera from the web interface when the alarm system is in **HOME** arming mode (Alarm images will still be recorded). The icon will change to indicating that this camera is blocked when alarm system is in **HOME** arming mode.
- Click the icon to block viewing this camera from the web interface when the alarm system is in **DISARM** arming mode (Alarm images will still be recorded). The icon will change to indicating that this camera is blocked when alarm system is in **DISARM** arming mode.
- Click button to apply the changes you've made.

Adding / Removing Cameras

If you want to be able to view images from inside your home via the internet, you need to have at least one supported camera connected to your PowerLink.

➢ ***To configure a CAM3100 / CAM3200 / CAM2000 / CAM2000WL camera in the Visonic PowerLink:***

1. Connect the camera to the Home Router using the supplied Cat-5 cable **and to the mains**.
2. Wait for the camera to connect to the network (about 30 seconds)
3. In the **ADD CAMERA** area in the click next to the **CAMERA TYPE** field and select NETWORK at the window that opened.
4. In the Location list click and select a location from the list.
5. Click the icon if your camera is installed upside down to flip and mirror the feed from this camera
6. Click the or icons to choose on which arming modes will the camera be blocked from being viewed through the web interface.
7. Click to start enrollment of the camera. Enrollment messages will be available at the alert popup.

You can leave this page and continue using the PowerLink while the enrollment is continuing at the background.

When enrollment finishes successfully the camera will be added to the EDIT CAMERAS area of the Camera Configuration page.

➢ ***To remove a camera:***

1. In the Edit Cameras area locate the camera you want to remove and click the Remove icon.

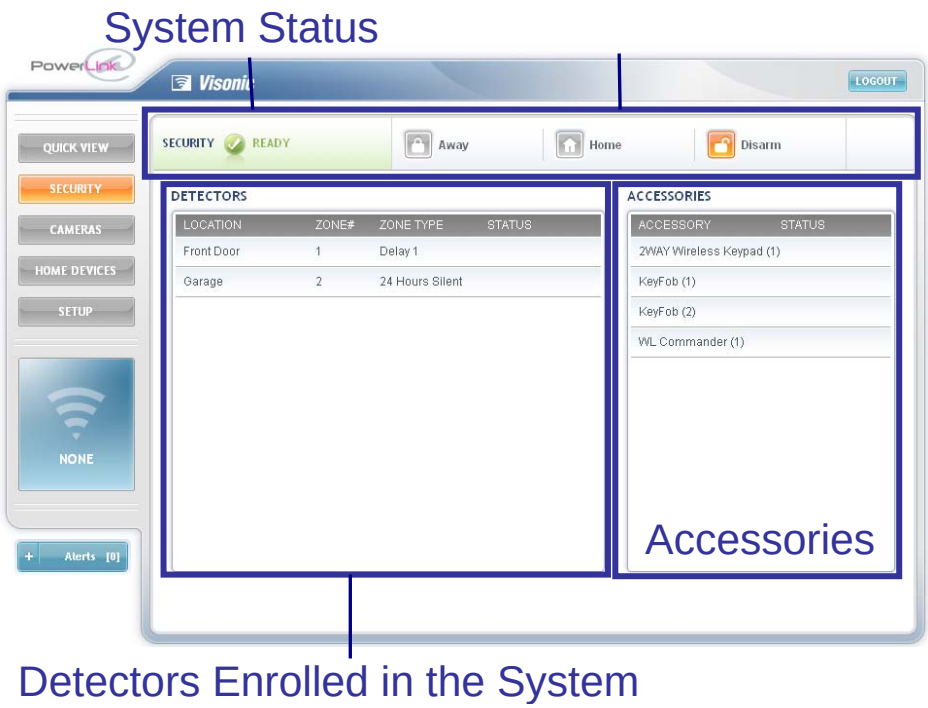
The camera is removed from the list.

Important
When removing more than one camera you need to remove the cameras one at a time. Once a camera is removed, disconnect it from mains. Trying to remove more than one camera may cause IP conflicts between the removed cameras.

Chapter 7: Managing the Security System

The Security view Work Area displays a detailed overview of the security system including the current arming mode of the security system, the status of the security system, the list of detectors and their statuses and a list of other security system accessories.

It enables you to remotely arm and disarm the security system in different arming modes.



Arming the PowerMax+ / PowerMax PRO Security System

The Visonic PowerLink enables remote arming and disarming of the PowerMax+ / PowerMax PRO Security System.

The Security view displays the current status of the PowerMax+ / PowerMax PRO security system according to the arming mode set.

The following arming modes are available:

- AWAY: All zones are protected
- HOME: Perimeter zones are protected but interior zones are not.
- DISARM: The system is in standby mode

The Security view displays the current arming mode in green.

➢ ***To change the arming mode:***

1. Click the required arming mode in the list to set the Security System to the new mode.

The new mode is marked Orange.

Security Information

Detectors

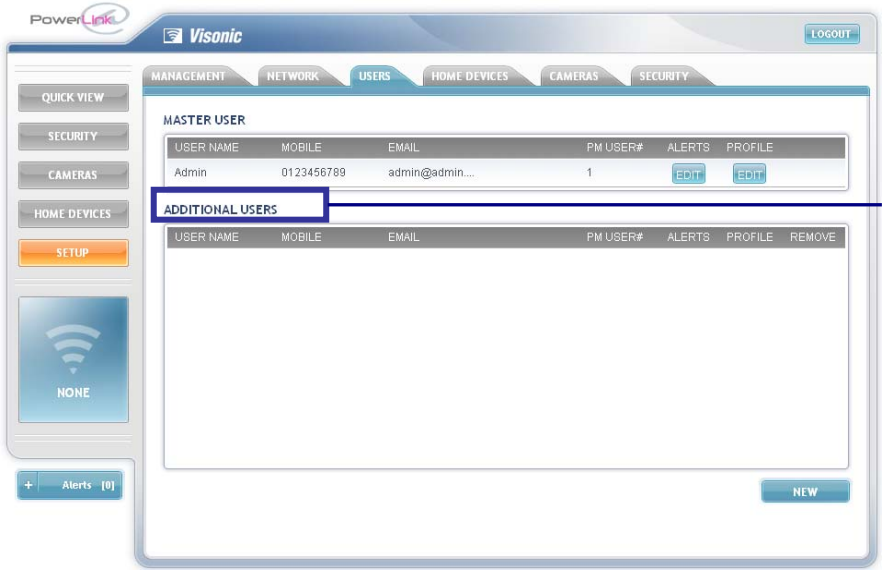
The Security view displays a list of all the detectors enrolled in the system and their status. For each detector the list displays its Zone Name, Zone Number and Zone Type.

Accessories

The Security view displays information for system accessories. For each accessory, the accessory name and status is displayed.

Chapter 8: Managing Users

The Visonic PowerLink is pre-configured with a Master user called **Admin**. Only the Master user can access the Users and Setup views of the Visonic PowerLink.



The Master user can add additional users to the Visonic PowerLink. Users that are added appear in the ADDITIONAL USERS list. A Master user can also edit or add information to the Master user or to other users of the Visonic PowerLink.

The Visonic PowerLink enables users to receive home security system, home control & automation and camera related notifications. The notifications can be sent to a mobile phone or an email address. The list of notifications can be customized for each user of the Visonic PowerLink so every user receives only relevant notifications to the desired phone number or email address. Users can also set up the type of notification (SMS or email) per each event.

A user profile includes the following information:

- **Username** - The user name used for logging in to the web interface.
- **Password** – Login password.
- **Mobile** – The mobile phone number to which notifications are sent (optional).
- **Email** – The email address to which notifications are sent.
- **PowerMax User#** – Attach the user name to the user number. Latchkey notifications (User entered the house) sent from the Visonic PowerLink (which by default include a PowerLink user number) now include the user name attached to this number**.**

Managing system users is done in Users View.

Tip
Change the username and password of the Master user and save the username and password in a safe place.

➢ ***To display the Users View:***

1. In the side menu of the Visonic PowerLink window click

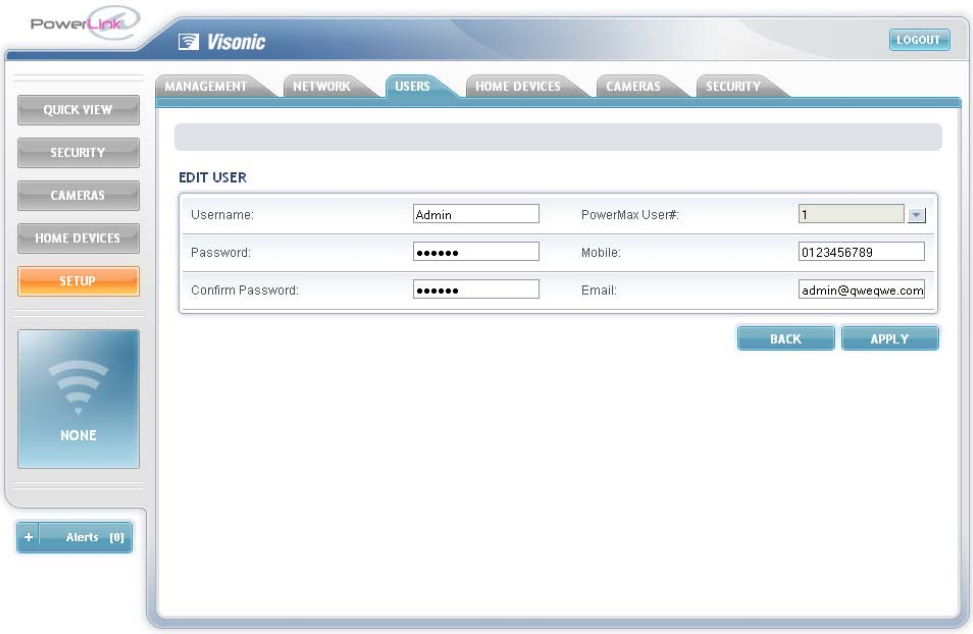
.
2. Click the Cameras tab.

The Users view is displayed.

➢ ***To change the Master user's name and password:***

1. In Users view click the **EDIT** button under the **PROFILE** title.

The following window appears.



2. Change the username from Admin to your own user name.
3. Change the password to your own password.
4. Repeat this step in the Confirm Password area.
5. Click **APPLY**.

Adding / Removing Users

You can add up to seven additional users to the Visonic PowerLink (excluding the Master user). You can then remove any or all of these users. The Master user cannot be removed.

➢ ***To add a new user:***

1. Click

and set the following parameters:

Username - The user name used for logging in to the web interface.

Password – Login password. (You need to re-enter the password to confirm).

Mobile - The mobile phone number to which notifications are sent.

Note
The mobile phone number is optional.

Email - The email address to which notifications are sent.

PowerMax User# - Attach the user name to the user number. Latchkey notifications (User entered the house) sent from the Visonic PowerLink (which by default include a PowerLink user number) now include the user name attached to this number**.**

2. Click **APPLY**.

The user is added to the **ADDITIONAL USERS** list.

➢ ***To remove a user:***

1. In the User view locate the user you want to remove and click the Remove icon. The user is removed from the **ADDITIONAL USERS** list.

Editing User Profiles

If you have the proper authorization you can edit the profile of any user.

➢ ***To change a user's profile:***

1. In Users view click the **EDIT** button under the **PROFILE** title.

The following window appears.

2. Edit the user profile according to your needs.
3. Click **APPLY**.

The user profile is updated in Users view.

Chapter 9: Managing System Configuration

System Configuration

Managing system configuration is done in Setup view.

Setup view includes the following tabs:

- **Management**: Connection and session related parameters. Factory reset and PowerLink ID.
- **Network**: Network and Wi-Fi related parameters.
- **Users**: Master user and Additional users management.
- **Home Devices**: Locations and Device names / Descriptions of the home devices connected to the PowerMax
- **Cameras**: Enroll new cameras to the PowerLink and Edit existing ones.
- **Security**: PowerMax security log.

➢ ***To display the Setup View:***

1. In the side menu of the Visonic PowerLink window click

.

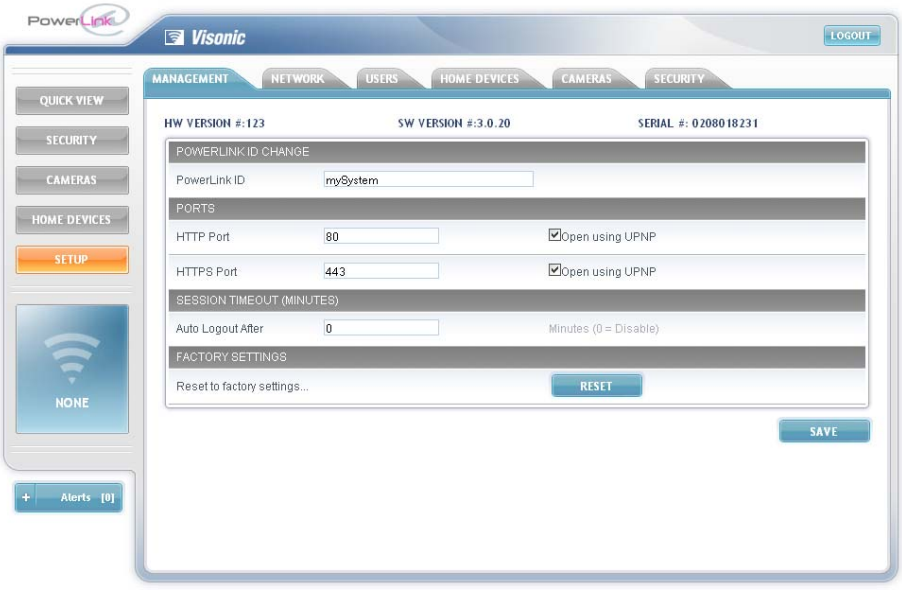
The Setup view is displayed.

Editing System Configuration

Important
Only the Master user can access the Setup view and manage the system configuration.

Management

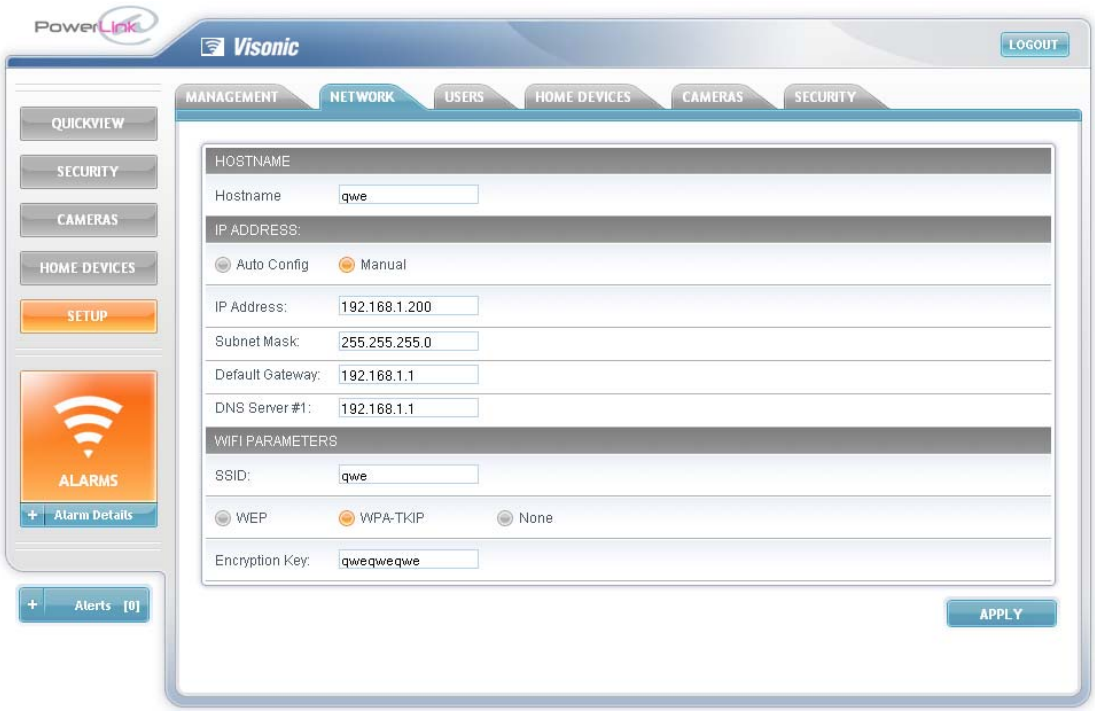
If you have the proper authorization (Master User) you can edit these details at any time.



The Management tab includes the following:

- **PowerLink ID –** The nick name of the PowerLink. Allows you to connect to the PowerLink with the ID instead of serial number.
- **Ports** - Allows changing the network ports in which PowerLink operates. HTTP is the port used for accessing your PowerLink from the internal network. HTTPS is used for access from the internet. If PowerLink is connected to a router that supports UPNP, checking the Open using UPNP will open the ports on the router automatically.
- **Session Timeout** – The amount of minutes until the user will be auto logged out from the web interface. Setting this to 0 (zero) will disable auto logout.
- **Factory Settings** – Press the RESET button to restore the PowerLink to it's factory defaults

Network



The Network tab includes the following:

- **Hostname** – The hostname that PowerLink will report to the network
- **IP Address** – The network parameters of the PowerLink:
  - **IP Address –** The IP address of the Visonic PowerLink
  - **Subnet Mask** – The subnet mask used with the IP Address
  - **Default Gateway** – The default gateway of the network
  - **DNS Server** – The IP address of the DNS server

- **WiFi Parameters** – The parameters of the WiFi network:
  - **SSID –** Network name.
  - **WEP / WPA-TKIP/ None –** The encryption methods available
  - **Encryption Key –** The key used for encryption. When choosing WEP as the encryption method, the length of the key will set the strength of the encryption (64bit or 128bit)

Users

Managing PowerLink users is described at: Chapter 8 – Managing Users

Home Devices

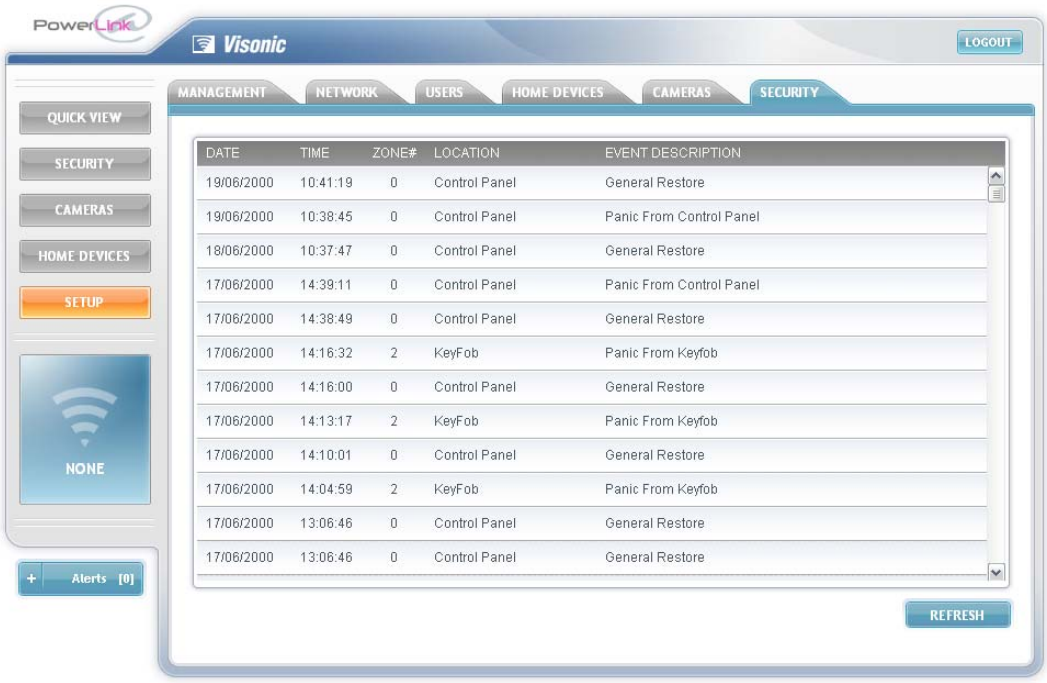
Managing Home Devices is described at: Editing Device Setup

Cameras

Managing the PowerLink cameras is described at Chapter 6 – Managing Video Cameras

Security

System events, alerts and alarms, are written to the PowerMax+ / PowerMax PRO log. The PowerMax+ / PowerMax PRO log event information includes the time and date of the event, event location and a description of the event.



Resetting to Factory Settings

It is possible to reset the Visonic PowerLink to its Factory Settings. Resetting the Visonic PowerLink to its factory settings will remove all the enrolled cameras, defined users and defined names and types of Home Devices.

Upon reset, the Master user is reset to the default username and password of the Visonic PowerLink.

➢ ***To reset the Visonic PowerLink to it's factory settings:***

1. In the Management TAB, click

.
2. Close the Browser and wait for the Visonic PowerLink to restart.
3. Login using the default username (Admin) and password (Admin123) (see Chapter 3: Logging Into The Visonic PowerLink on page 19).

Chapter 10: Cellular Web Interface

The PowerLink has two types of cellular web interfaces: WAP and XHTML. The XHTML interface is a graphic interface, similar to a regular web interface, and is intended for new generation cellular phones. The WAP interface is a textual interface that allows older types of cellular phones to control the PowerLink.

The system will automatically redirect your phone to the appropriate interface and will display the functions associated with the phone.

Logging into PowerLink

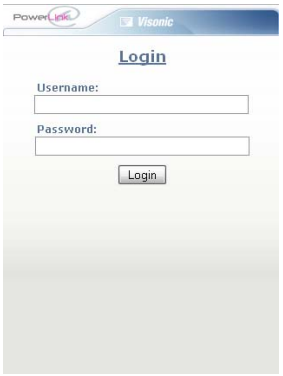
From your cellular phone, browse to your PowerLink address in the same way you would browse when using the internet. The type of menu that appears upon login is determined by the type of cellular phone you have and its capabilities.

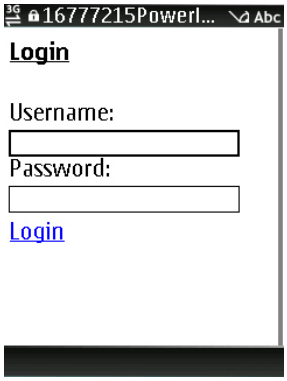
➢ ***To login from your cellular phone to your Visonic PowerLink:***

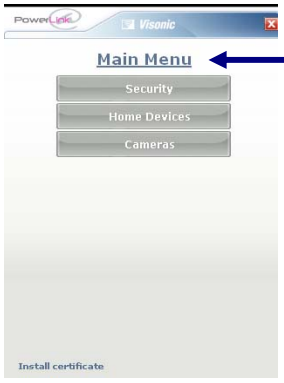
1. In the Login screen that appears enter the Username and Password.

   If you are unable to login, call your Visonic PowerLink service provider for assistance.

2. Click **Login**.







XHTML Main Menu

WAP Main Menu

Viewing the security status

This allows you to view the status of your alarm system as it appears on the LCD screen.

➢ ***To view the status of your alarm system:***

1. From the main menu, select Security. The Security screen appears.

Setting the security mode

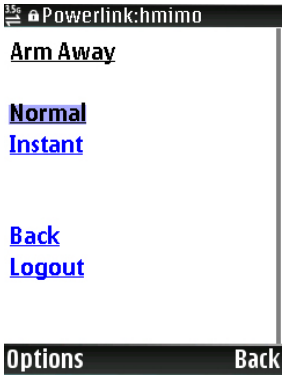
This allows you to arm or disarm the system using your cellular phone.

➢ ***To arm or disarm the system:***

1. From the main menu, select Security. The Security screen appears.
2. Click on the arming mode to which you desire to set the alarm system.

If the arming mode has several options from which to choose, the menu will expand and allow you to choose from the list of options. For example, Arm Away will allow you to choose between Normal and Instant.

3. Choose the option you desire.



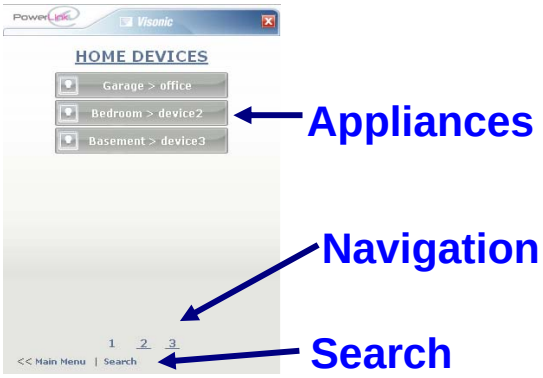
4. To return to the main menu, click the << main menu button on your Visonic PowerLink or click the Back button on your cellular phone.

Controlling Home Devices

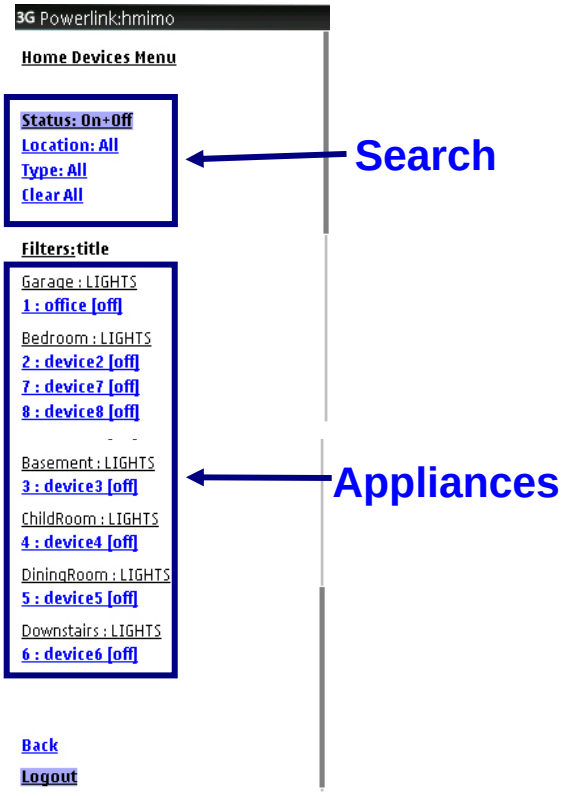
Controlling Home Devices allows you to turn on and off the home appliances connected to the alarm system and to apply to them specific actions.

➢ ***To arm or disarm the system:***

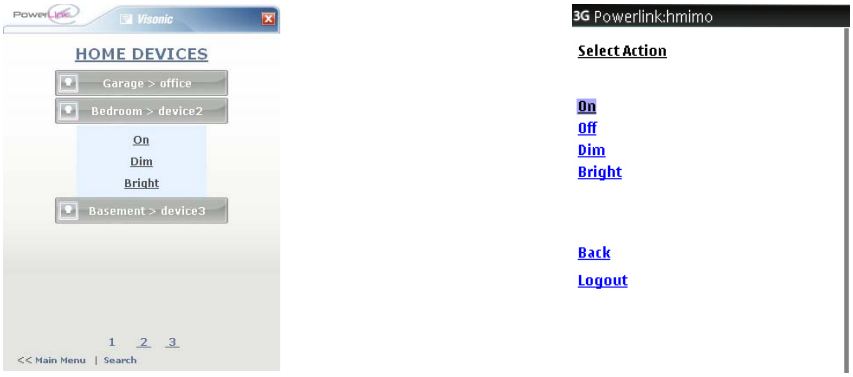
1. From the main menu, select Home Devices. The Home Devices screen appears.



Use the navigation links to scroll through the pages of the Home Device. Click on the desired device to expand its options.



Click on the desired device to expand its options.



2. Click on the desired action you want to apply to the device. The updated action will appear on the Home Devices screen.

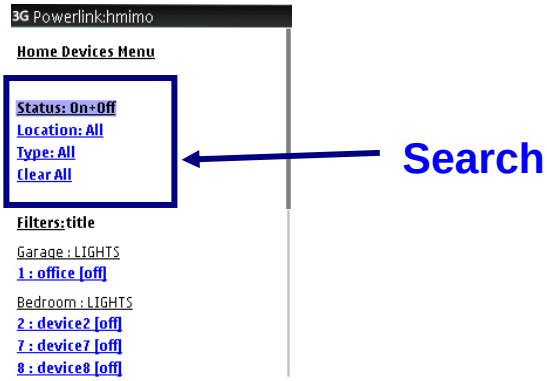
3. To return to the main menu, click the << main menu button on your Visonic PowerLink or click the Back button on your cellular phone.

Filtering / Searching Home Devices list

This provides a quick way to search for the appliance you want to control.

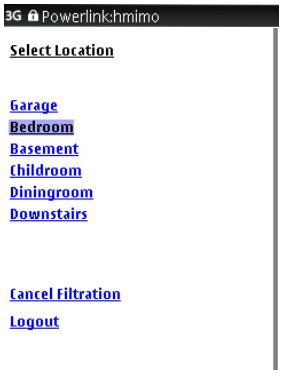
1. From the main menu, select Home Devices. The Home Devices screen appears.

2. Click on the Search button at the bottom of the page



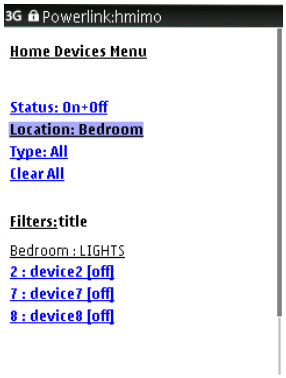
3. Click on the type of Search you want to apply. Select between Status, Location or Type.

Make your selection from the drop down menu and then click on Filter.



Make your selection from the list.

4. The list is now filtered according to your selection.



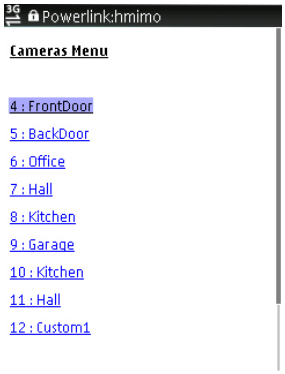
5. To return to the main menu, click the << main menu button on your Visonic PowerLink or click the Back button on your cellular phone.

Controlling Your Cameras

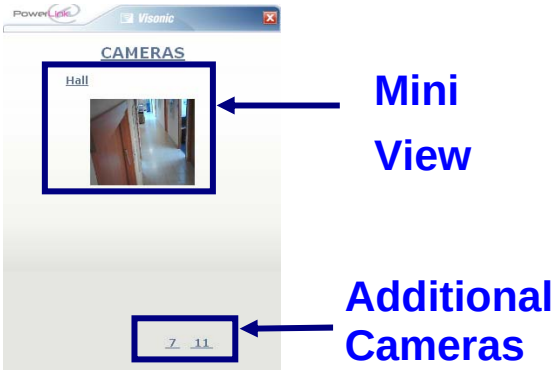
This allows you to control and view enrolled PowerLink cameras from your cellular phone.

1. From the main menu, select Camera. The Camera screen appears.

Click on the zone name where the camera you want to view is located.

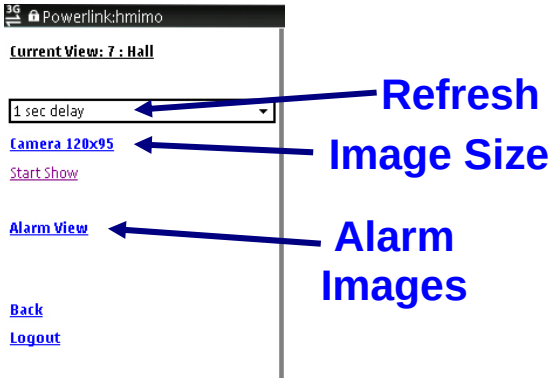


Click on the camera name you want to view.



Click on the Mini View to open the larger camera feed (additional controls are located here). Click on the camera numbers at the bottom of the page to view other cameras in this zone.

Click on the zone name to return to the zone list.



Here you can set the view refresh rate.

The image size link allows you to change the size of the viewed image.

Start Show enables you to view the camera.

Alarm View switches to alarm images viewing mode.

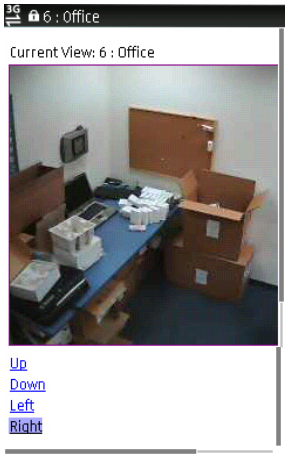
Pan/Tilt Controls

Alarm Images

Click on the image to return to the previous page.

Use the Arrows at the lower right side of the image to pan and tilt a camera (applicable only to cameras that support this feature).

Use the orange icon to view alarm images of the last recorded alarm.



Click on the image to return to the previous page.

Use the up / down / left / right links to pan and tilt a camera that supports this feature (Visonic CAM3200).

Alarm Images Screen

Use the left, pause and right buttons to view the images frame by frame.

Click on the image to return to the previous page.

Alarm Images Screen

Click on the image to return to the previous page.

Glossary

Alarm

An alarm situation is initiated when an alarm trigger is being sent from one of the detectors attached to the alarm system. Different detectors types can be:

- **PIR** – Detect motion in the zone (room) where they are installed.
- **Door contact** – Detects the opening of a door or a window.
- **Glass Break** – Detects a glass breaking event.
- **Fire** – Detects a fire situation.
- **Flood** – Detects a flood situation
- **Gas** – Detects a leak of gas.
- **Emergency / Panic** – Two buttons located on the control panel or keypads of the security system. Once being pressed by the owner, an emergency alarm is initiated.

Alert

Alerts indicate trouble events in the security system control panel or in the accessories. Once an alert situation occurs, it will not affect the security system's behavior immediately but it should be fixed as soon as possible. Alert events include the following:

- **Tamper Open** – One of the security system accessories is open or removed from the wall.
- **Inactivity** – One or more of the security system accessories has lost connection with the control panel.
- **Low Battery** – One of the security system accessories has a low battery situation.
- **Communication Failure** – The control panel is disconnected from the phone line.
- **RF Jamming** – The RF transmission of the control panel is being jammed.
- **Power Fail** – The control panel is disconnected from the mains.

Arming

The security system has different arming modes in which the security system acts differently as a result of a trigger being sent from the detectors:

- **Arm Away** – The AWAY mode indicates that the house is empty (although pets may remain in the house if proper detectors are installed). In this arming mode, any trigger from any of the detectors is immediately treated by the security system as an Alarm situation.
- **Arm Home** – The HOME mode indicates that the house is partially occupied. This mode is usually used during night hours in which some of the detectors are to be ignored since the house members might move in the areas where

these detectors are installed during the night. In this mode, the security system threats all the detectors that are assigned to perimeter zones as immediate alarm initiators and to all detectors assigned to interior zones as non-alarm initiators.

- **Disarm** – The DISARM mode is usually used when the house is occupied during day hours. During this mode, non of the detectors will be treated as alarm initiators except for detectors that are assigned to a 24 Hour zone (such as a safe room) in which any trigger must be an alarm initiator.
- **Arm Bypass / Home Bypass** – The ARM BYPASS and HOME BYPASS arming modes are used to arm the security system even if some of the detectors are troubled or in "Open" status that indicates detection. Once armed, the security system will ignore any triggers from the detectors that were troubled or "Open" when the security system was armed. Use these arming modes with caution as when being used, some parts of the house are not secured even when the security system is armed.

Central Station

A monitoring station capable of receiving alarm indications from security systems. Central stations usually alert the police or send their own guards to a house that is alarmed in order to verify the alarm and potentially apprehend the intruder or take care of the alarm situation (fire, gas, flood, etc.)

Control Panel

The control panel is the main unit of a security system. It collects information from various detectors and responds in various ways such as sounding a siren or calling the central station or the home owner.

Latchkey

The Latchkey mode is a special mode in which designated "latchkey users" trigger a "latchkey message" to be sent to a telephone or a pager when they disarm the system. For example, if a parent wants to be sure that their child has returned from school and disarmed the system, they will assign a Latchkey user to the child. Refer to the security system's user manual in order to find out how to enable the Latchkey function.

Port Forwarding

IP addresses of computers connected to a LAN are called Unregistered IP Addresses whereas IP Addresses of computers or devices connected to the WAN are called Registered IP Addresses. Computers with an Unregistered IP addresses (such as the Visonic PowerLink) cannot communicate with computers or devices with a Registered IP addresses (such as the computer in your office) directly.

The Port Forwarding feature enables computers with a Registered IP address (such as your office computer) to access services on computers with an Unregistered IP Address (such as the Visonic PowerLink). This is done by mapping ports on the router so each request arriving to the router at a specific port is routed to the computer that hosts the service on the LAN.

Not all Home Router manufacturers use the term "Port Forwarding". Alternative terms you may find in your Home Router can be: "Port Redirection", "Virtual Servers" and "Applications and Gaming".

Home Router

A router is a device that connects two networks. The network within the house is considered a LAN (Local Area Network). To enable Internet access from a LAN, a connection to the WAN (Wide Area Network) has to be established using a router. Routers enable all users in a network (LAN) to share a single connection to the Internet or a WAN.

Two main technologies are used to provide high-speed Internet connections to private houses. The first is called DSL or ADSL and the other is Cable.

In order to provide a Broadband Internet connection to the house, a device called a Modem is installed in your house. Every device in the house that needs to be connected to the Internet has to be connected to the DSL/Cable modem. Most DSL/Cable modems have only one port for connecting a device within the house to the Internet. In most cases (but not all) your computer is connected to this port.

If you have more than one device within the house that need to be connected to the Internet you are required to attach a home networking device called a Home Router to the DSL/Cable Modem. The home router enables connecting multiple devices to the Internet at the same time via one DSL/Cable modem. The WAN (Wide Area Network) port of the Home Router connects to the DSL/Cable modem. Devices that need to be connected to the Internet are connected to the LAN (Local Area Network) ports of the Home Router. All LAN and WAN ports are called Ethernet ports and are connected via an RJ-45 connector.

Wi-Fi (Wireless LAN)

Standard home routers require Ethernet cables between the devices connected to the Internet and the router. The "Wi-Fi" or "Wireless LAN" technology enables a wireless connection between the devices and the home router. Some routers have the Wi-Fi features built in. In others, the Wi-Fi feature can be added by attaching a Wi-Fi "Access Point" to the home router. Routers with Wi-Fi and Wi-Fi access points can be easily identified by one or two Antennas located on the backside of the home router or Wi-Fi access point.

Product Limitations

Our wireless systems are very reliable and are tested to high standards. However, due to their low transmitting power (required by FCC, DTI and other regulating authorities) there are some limitations to be considered:

A. Receivers may be blocked by radio signals occurring on or near their operating frequencies, regardless of the code selected.

B. A receiver can only respond to one transmitted signal at a time.

C. Wireless equipment should be tested regularly (at least once a week) to determine if there are sources of interference and to protect against faults.

WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

Appendix A

PowerLink Installation Form

Parameter	Value
Home Router IP Address	____ . ____ . ____ . ____
PowerLink IP Address	____ . ____ . ____ . 200
SSID	
Encryption method	WEP / WPA-TKIP / None
WEP Key String	
PowerLink Remote URL	

W.E.E.E. Product Recycling Declaration

For information regarding the recycling of this product you must contact the company from which you orignially purchased it. If you are discarding this product and not returning it for repair then you must ensure that it is returned as identified by your supplier. This product is not to be thrown away with everyday waste.

Directive 2002/96/EC Waste Electrical and Electronic Equipment.

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VISONIC LTD. (UK): UNIT 6 MADINGLEY COURT CHIPPENHAM DRIVE KINGSTON MILTON KEYNES MK10 0BZ. TEL: (0870) 7300800 FAX: (0870) 7300801

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